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## NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

<b>X</b>	<ol> <li>This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.</li> </ol>
B	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
B	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
	7. Other:
Аp	plicant Must Provide:
	An <u>initial</u> or substitute computer readable form (CRF) copy of the "Sequence Listing".
8	An <u>initial</u> or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
Ø	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).
For	questions regarding compliance to these requirements, please contact:
	Rules Interpretation, call (703) 308-4216
	CRF Submission Help, call (703) 308-4212
101	Patentin software help, call (703) 308-6856

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## Table VIIA Mage 2 A01 Supermotif Peptides with Binding Data

Sequence

SEQ ID NO.

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4 6 4 5 5 6 6	*	7 <b>5</b> 2 2 2 2 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3223333333	33 3 4 37 6
0.1700	0.0028	0.0450	0.0430	0.2000
622∞22 <u>-</u> :	= o 2 o = o 2 = 2 ∞ =	<u> </u>	2	∞ = ∞ =
68 68 249 224 113 113 700	253 263 263 663 67 112 282 245	246 246 116 178 148 148 84	138 2 2 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	179 166 169 176
ASEYLQL VF ASSESTTINY DLVQENYLEY ELSMLEVY ESVLRNCQDF ESVLRNCQDF ESVLRNCQDF ESVLRNCQDF	EVPENDENLY EVPENDENLY ESTTINYTLW GSDPACYEF GSDPACYEF GSDPACYEF UVCLGLSY ISRKMVELVHF KIGGEPHISY KMYELVHF I MODI VORNY	LMODLYGENY LVHFLLLKY LVQENYLEY LVTCLGLSY PVIFSKASEY QVPGSDPACY RMFDI FSFF	SSESTINY STRINYTLW STRINCQDF SVLRNCQDF TRINYTLW VIFSKASEY VLRNCQDF	VICLOLSY VVEVVPISHLY VVPVVPISHLY VILVTCLGLSY

,	A	Table VILB Mage 3. A01 Supermotif Peptides with Binding Data	inding Data	
Sequence	Position	No. of Amino Acids	A*0101	SEQ ID NO.
A CCI DETENDIN	87	S	00076	90
ASSECTION I	98	2 0	7.6000	38
ATCLGLSY	621	\ oc	01100	40
ELSVLEVF	224	> ∞	?	5 4
ELVHFLLLKY	115	10		42
EMLGSVVGNW	134	10		243
EVDPIGHLY	168	6	18.0000	44
EVDPIGHLYIF	168	=		45
FVQENYLEY	250	6		46
GSDPACYEF	263	σ:		47
GSDPACYEFUM	263	= 6	0000	84 ,
CSAACIMOA	13/	ν :	0.0500	49
COVVCNWOVER	137	2 -		0° -
HISYPPI HEW	708			- S
VSUPPLIES.	203	≥ σ	0,000	25
ISYPPI HEW	799	<b>~</b> 0	0.0370	2 2
KISGGPHISY	292	,10	0.0011	45
KVAELVHF	112	? ∞		56
LLTQHFVQENY	245	· =		57
LMEVDPIGHLY	166	=	7.5000	58
LSRKVAELVHF	109	=:		59
LTOHFVOENY	246	0.	0.2600	09
LVHFLLLKY	911	6		19
MICSOVCRW	551	ъ :		62
MCO3V VOIVWOI	5.5	_ •		63
DOTTEDDI ECEE	1/1	0 -		40
PITMNVPIW	22	<b>:</b> 0		G 44
OVPGSDPACY	260	, or		25
SLPTTMNY	20	? ∞		89
SLPTTMNYPLW	70	=		69
SSLPTTMNY	69	6	0.0550	20
SSSLQLVF	155	∞		11
STFPDLESEF	<b>9</b> 6	01		72
SVVGNWQY	138	∞ (		73
SVVGNWQYF	38	<b>3</b> S		74
TANKE WOOD	130	2 =	0.0830	C/ %
TIMNYPLW	73	∵ ∞	0000.0	77
VVGNWOYF	139	, ∞		78
VVGNWQYFF	139	6		79
YIFATCLGLSY	176			80

Table VIII.A Mage 2 A02 Supermotif with Binding Data

Amino Acids  Amino Acids  10  10  10  10  11  11  11  11  11  1	Amino Acids  Amino Acids  8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 9 9 9 10 11 11 11 11 11 11 11 11 11 11 11 11	Position	Jo OX	Mage 2	Mage 2 AU2 Supermotit with Binding Data A*0203 A*0203	vith Binding Dat	R A*0206	A*6807	SEO ID NO
8 5 11 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	≈5±5√5√±≈5±±≈±√5≈≈√5≈≈√5√5≈5±≈±≈5±≈√∞≈∞√±√5	rosinon	Amino Acids	A-0201	A-0202	A-0203	A*0200	A-0802	SEQ ID NO.
5 = 5 = 5 = 5 = 5 = 5 = 5 = 5 = 5 = 5 =	5 = 5 • 5 • 1 = 8 = 6 • 5 • 8 • • 5 • 5 • 5 • 5 = 8 = 5 • 5 = 8 = 8 = 8 = 8 = 6 = 8 = 8 = 6 = 8 = 8	107	80						81
= 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0	= 5	107	01						82
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○S○I∞SII∞IOS∞∞⊙S∞∞S⊙S∞SI∞IS∪S∞I∞SI∞⊙∞∞⊙I⊙	○S○□∞S□□∞□⊙S∞∞⊙S∞∞S∪S∞S□∞□S⊙S□∞⊙S□∞⊙∞⊙□⊙S	207	01						84
⊇⊙∵∞S∵∵∞∵⊙S∞∞⊙S∞∞S⊙S≈S∵∞∵S⊙⊙≈≈≈≈⊙∵⊙	S ∪ I ∞ S I I ∞ I ∪ S ∞ ∞ ∪ S ∞ ∞ S ∪ S ∞ S I ∞ I ∞ S I ∞ O ∞ ∞ ∪ ∪ S ∪ O S ∞ I ∞ S I ∞ O ∞ ∞ ∪ ∪ S ∪ O S ∞ I ∞ S I ∞ O ∞ ∞ ∪ ∪ S ∪ O S ∞ I ∞ S I ∞ O ∞ ∞ ∪ ∪ S ∪ O S ∞ I ∞ S I ∞ O M ∞ ∪ ∪ O S	108	6						82
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		22	6						87
2	: \$ 2 I I \$ I \$ 5 \$ \$ \$ \$ \$ 5 \$ \$ 5 \$ \$ 5 \$ \$ 5 \$ \$ \$ \$ 5 \$	22	Ξ						. ×
0 2 1 1 8 1 0 0 8 8 8 0 0 1 8 8 1 0 0 0 0 1 1 8 1 1 1 1	0 2 1 1 8 1 0 2 8 8 0 2 0 8 8 2 1 0 0 0 0 0 1 1 8 1 0 0 0 0 0 1 1 8 1 0 0 0 0	;	<u> </u>						9 6
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		777	2:						2 5
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		32	∞						93
9	$\psi \otimes \infty \otimes \psi \otimes \infty \otimes \omega \otimes \omega$	215	=						8
0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	181	0						8
5 × × • • • × • • • • × • • • • × •	5 8 8 8 6 6 8 8 5 1 2 8 1 2 8 6 8 8 8 6 6 1 6 8 8 8 8 6 6 6 6 8 1 7 8 8 8 8 8 6 6 1 6 8 8 8 8 8 8 9 6 1 6 8 8 8 8 8 9 6 1 6 8 8 8 8 8 9 6 1 6 8 8 8 8 8 9 6 1 6 8 8 8 8 8 9 6 1 6 8 8 8 8 8 9 6 1 6 8 8 8 8 8 9 6 1 6 8 8 8 8 9 6 1 6 8 8 8 8 9 6 1 6 8 8 8 8 9 6 1 6 8 8 8 8 9 6 1 6 8 8 8 9 6 1 6 8 8 8 9 6 1 6 8 8 8 9 6 1 6 8 8 8 9 6 1 6 8 8 9 8 9 6 1 6 8 8 9 8 9 6 1 6 8 9 8 9 9 1 6 8 9 8 9 9 1 6 8 9 9 9 1 6 8 9 9 1 6 8 9 9 9 1 6 8 9 9 9 1 6 8 9 9 9 1 6 8 9 9 9 1 6 8 9 9 9 1 6 8 9 9 9 1 6 8 9 9 9 1 6 9 9 9 9	101	\ <u>-</u>						2 6
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8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 8 5 0 9 0 5 11 8 11 0 0 0 0 11 8 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	240	) o						201
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0 0 ∞ 0 ± ∞ ± 0 0 0 ∞ ± ∞ 0 0 ± ∞ 0 ∞ 0	0.00	7	0.						103
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0. × 0. 1. × 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	17	6						104
≈ 5 ± ∞ ± 5 € 6 € 5 € 6 € 6 € 6 € 6 € 6 € 6 € 6 €	8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	11	10						105
0. 1. 8 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	5 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 =	115	8						901
2.1. 8 1. 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 1 8 2 6 6 2 8 8 8 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	35	01						107
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0	2	280	; ox						00
0.00	0 6 0 8 8 8 8 6 11 6 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	280	. =						2
5 6 5 8 7 8 9 8 8 8 8 6 7 7 8 9 8 8 8 9 6 7 7 8 9 8 9 6 7 7 8 9 8 9 9 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5 6 7 8 7 8 6 7 8 6 7 6 7 6 7 6 7 6 7 6 7	86							2:
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∞ 0	2 8 8 6 1 6 6 1 6 6 1 6 1 6 1 6 1 6 1 6 1	165	×						114
8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	∞ 5 ± ∞ 0 ∞ ∞ 0 ± 0 €	165	=	•					115
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	01 1 8 8 8 9 9 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	168	∞						116
		168	01						117
	. ∞ o v ∞ o o o o o o o o o o o o o o o o o o . o o .	168	: =						
o ♥ ∞ ♥ ♥ □ ♥	0 0 8 8 0 T 0 T	2 5	-						0 :
9 8 8 9 11 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	v ∞ ∞ ∞ v : 1 v v i v v v v v v v v v v v v v v v v	539	<b>90</b> (						61
8 & & & C T T C	8 8 8 0 C I	239	6						120
8 6 0 C C C C C C C C C C C C C C C C C C	80 O. T. C.	119	∞				٠		121
6	9 01	172	∞						122
	901	271	6						123
0	6	172	=						124
		105	6						125

Table VIIIA
Mage 2 A02 Supermotif with Binding Data

	SEQ ID NO.	122 123 123 123 123 123 123 123 123 123
	A*6802	
	A*0206	
Binding Data	A*0203	
Mage 2 AU2 Supermotif with Binding Data	A*0202	
Mage 2 A02	A*0201	
	No. of Amino Acids	∞ o ∞ 5 ≈ o □ ∞ o ⊙ □ ∞ o 5 □ o □ □ ∞ o ∞ o ∞ ∞ o ∞ o ∞ o ∞ o ⊙ □ ∞ o 5 □ o □ o ⊃
	Position	64 163 163 163 163 163 163 163 163 163 163
	Sequence	GASSFSTT GASSFSTT GASSFSTT GLEVVEVV GLEARGEAL GLEARGEALGL GLGDNQVM GLLGDNQVM GLLGDNQVM GLLINLAI GLLINLAI GLLINLAI GLUIVLAII GLLINLAI GLUIVLAII GLUIVLAII GLUIVLAII GLUIVLAII GLUIVLAII HIVPPPLHERA HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL HLYILVTCLGL KASEVLQL KASEVLQL KASEVLQL KASEVLQL KASEVLQL KANELSMLES KIWEELSML KWWELVHFLL KMWELVHFLL KMWELVHFLL KMGCEPHI KTGLLIIVLA KTGLLIIVLA KTGLLIIVLA KTGLLIIVLA KTGLLIIVLA KTGLLIIVLA KTGLLIIVLA KTGLLIIVLA KTGLLIIVLA KTGLLIIVLA KTGLLIIVLA KTGLLIIVLA LAIISTSVKV

	SEQ ID NO.	174 4 174 174 174 174 174 174 174 174 17
	A*6802	
	A*0206	
ith Binding Data	A*0203	
Mage 2 A02 Supermotif with Binding Data	A*0202	
Mage 2	A*0201	-
	No. of Amino Acids	∞ o o o o o o o o o o o o o o o o o o o
	Position	202 202 202 203 201 201 201 201 201 201 201 201 201 201
	Sequence	LIIVLAII LIIVLAIIA LIGDNQVMPKT LIGDNQVMPKT LIGDNQVMPKT LLIIVLAIIA LLIIVLAIIA LLIIVLAIIA LLIIVLAIIA LLIIVLAIIA LLIIVLAIIA LLIIVRAREPV LLKYRAREPV LLKYRAREPV LLKYRAREPV LLKYRAREPV LLKYRAREPV LLKYRAREPV LUGOLVGENV LVFGIEVV MYELVHFLL MYELVHFLL MYELVHFLL NQVMPKTGL NQVMPK

Table VIIIA
Mage 2 A02 Supermotif with Binding Data

QVAKERQUA         29         11         2019           QLYARERQUA         29         8         2019         2019           QLYARERQUA         199         9         2019         2019           QLYARERQUA         199         1         2019         2019           QLYARERQUA         199         8         2019         2019           QLYARERQUA         194         1         2019         2019           QLYARERQUA         194         1         2019         2019           QLYARERQUA         10         20         20         20           QLYARERQUA         10         20         20         20         20           QLYARERQUA         20         3         4         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         <	Sequence	Position	No. of Amino Acids	A*0201	A*0202	A*0203	A*0206	A*6802	SEQ ID NO.
159   159   156   157   157	QAPATEEQQTA	29	=						219
15.55 15.56 15.57 15	QLVFGIEV OI VFGIEVV	159	∞ σ						220
3.6 5.0 9 3.7 10 0 3.7 10 0 3.7 10 0 3.7 10 0 3.7 10 0 3.7 10 0 3.7 10 0 3.7 10 0 3.7 10 0 3.8 11 3.8 11 3.8 8 8 4.9 8 4.0 8 4.0 8 4.0 8 4.0 8 4.0 8 4.0 8 4.0 8 4.0 8 4.0 8 4.0 8 4.0 8 4.0 8 4.0 8 4	QLVFGIEVVEV	159	`=						222
3.6 10 3.7 10 3.7 10 3.7 10 3.7 10 3.8 11 3.8 11 3.8 12 3.8 18 3.8 19 3.	QQTASSSST	36	6						223
1 1 1 2 2 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	QQTASSSTL	38	2 :						224
3.7.7 9 6 7 7 7 9 6 7 7 7 9 6 7 7 7 9 9 8 7 7 7 9 9 8 8 7 7 7 9 9 9 8 8 8 9 8 8 9 9 9 9	OTASSSSILV OTASSSSILV	S [5	<u> </u>						225
13.7   10   10   10   10   10   10   10   1	OTASSSSTL	37	• 6						977
194   9 8   9 4   1   1   1   1   1   1   1   1   1	<b>OTASSSSTLV</b>	37	01						227 866
194 19 19 19 19 19 19 19 19 19 19 19 19 19	<b>QVMPKTGL</b>	194	∞						229
194   194   10   250   8   1   10   10   10   10   10   10	QVMPKTGLL	194	6						230
256 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	QVMPKTGLLI	194	0						231
250 276 276 125 125 277 278 279 270 271 271 272 273 273 273 274 275 276 276 276 276 276 276 276 276	QVMPKTGLLII	194	= -						232
250 250 250 250 270 271 272 273 273 273 274 275 276 277 278 279 270 270 270 270 270 270 270 270	OVPGSUPA	250	∞ (						233
125 9 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	RALIE1STV PATIETSYVVV	917	ъ =						234
255 17 19 19 19 19 19 19 19 19 19 19 19 19 19	RACICISTANA	125	Ξ σ						235
255 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	RAREIVIKAEM	. 561	· -						236
43 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ROVEGSDPA	250	- o						237
43 8 8 11 8 72 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	SOHCKPEEGL	7	01						238
43     11       237     9       237     10       237     10       38     8       38     9       38     11       49     8       290     10       24     10       250     10       26     8       195     9       195     11       195     11       130     11       48     8       48     8	STLVEVTL	43	. ∞						240
237 9 237 10 237 10 38 8 38 9 44 8 44 10 290 10 286 8 113 11 195 11 195 11 195 11 196 11 197 11 198 8 8	STLVEVTLGEV	43	=						241
237 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	STTINYTL	72	8						242
237 110 38 8 8 38 8 8 49 8 8 44 10 290 10 240 10 280 8 8 130 11 130 11 48 8 8	SVFAHPRKL	237	6						243
38 8 8 8 8 8 8 9 9 8 8 8 8 8 8 8 8 8 8 8	SVFAHFKKLL	237	2 :						244
38 8 8 8 8 8 8 8 9 9 8 8 8 9 9 8 8 9 9 9 8 8 9	3VFAHFRALLIM TASSETI	/2/	= •						245
38 11 49 8 84 10 44 10 149 10 286 8 8 136 11 195 9  195 10 195 11 179 11 179 11 189 8 19 8 19 9	TASSSSIL TASSSSTIV	38	∞ c						246
9.0 9.0 1.0 4.4 1.4 1.4 1.6 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	TACCCCTIVEV	9 00	<b>^</b> =						247
290 10 44 10 149 10 189 8 195 8 195 9 195 11 179 11 130 10 130 10 48 8	TI GEVDA A	8 0	= •						248
44 10 149 10 139 11 195 8 195 9 195 10 195 11 179 11 130 10 148 8	TLKIGGEPHI	240	<u> </u>						249
149 10 286 8 139 11 195 8 195 9 195 10 195 11 179 11 130 10 148 8 48 9	TLVEVTLGEV	44	2 2						057
286 8 139 11 15 15 15 15 15 15 15 15 15 15 15 15	VIFSKASEYL	149	2 0						152
139   11   195   8   8   8   195   9   9   9   9   9   9   9   9   9	VLHHTLKI	286	∞						253
195   8   8   9   9   9   9   9   9   9   9	VLRNCQDFFPV	139	=						254
195 9 10 10 11 11 11 11 11 11 11 11 11 11 11	VMPKTGLL	195	<b>∞</b>						255
195 10 195 11 179 11 130 10 130 11 48 8	VMPKTGLLI	195	6						256
251 11 179 11 130 10 130 11 48 8	VMPKTGLLII	261	2 :						257
251 11 179 11 130 10 130 11 48 8 48 9	VMPKIGLLIIV	195	= :						258
179 11 130 10 130 11 48 8 48 9	VQENYLEYRQV	251	= :						259
130 11 48 8 48 9	VICEULS I DOL VTK A FMI FSV	130	- 5						260
48 8 48 48 9	VTKAEMLESVL	<u>8</u> <u>8</u>	≥ =						197
48 9	VTLGEVPA	48	: ∞						263
	VTLGEVPAA	48	6						264

Table VIII A	Mage 2 A02 Supermotif with Binding Data
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						ı		
Sequence	Position	No. of Amino Acids	A*0201	A*0202	A*0203	A*0206	A*6802	SEQ ID NO.
VVEVVPISHL	991	01						265
VVPISHLYI	691	6						566
VVPISHLYIL	691	0						267
VVPISHLYILV	691	=						268
YILVTCLGL	176	6						569
YLOLVFGI	157	80						270
YLÔLVFGIEV	157	01						171
YLOLVFGIEVV	157	=						272
YVKVLHHT	283	<b>∞</b>						273
YVKVLHHTL	283	6						274
YVKVLHHTLKI	283	=						275

Table VIII B
Mage 3 A02 Supermotif with Binding Data

Table VIII B
Mage 3 A02 Supermotif with Binding Data

CASALPTIM   CASA	Sequence Position	No. of Amino Acids	A*0201	A*0202	A*0203	, A*0206	A*6802	SEQ ID NO.
GL 155 9 00001  GL 188 8 1 00002  GL 188 8 1 0 00002  GL 188 8 0 00003  GL 188 9 00003  GL 188 9 0 00003  GL 188 9 00003  GL 188 9 0 00003  GL 188 9 00003  GL 188 9 0		0Ĭ						324
		∞ o	10000					325
GL 115 9 00002  GL 118 88 8 000001  119 98 000002  T 2 24 10 000002  T 2 24 10 000003  T 2 24 10 000003  T 2 25 10 000004  T 2 25 10 000004  T 3 29 000001  T 1 2 24 10 000003  T 2 25 10 000001  T 3 29 000001  T 4 2 2 4 10 000003  T 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		, I	0000					976
CL 15 19 00001  18 8 8 8 9 00002  200 9 00002  200 9 000003  1.		≥ ∞	0.0002					327
CIT. 155 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		o	0 0001					326
188   9   188	15	· =						330
200 8 9 0,0002 200 10 0,0003 200 11 0,0003 200 11 0,0003 200 11 0,0003 200 11 0,0003 201 11 0,0004 202 203 8 0 0,0001 203 8 0,0001 203 8 0 0,0001 203 8 0 0,0001 203 8 0 0,0001 204 10 0,0002 205 8 0 0,0002 207 208 8 0 0,0001 208 8 0 0,0001 209 8 0 0,0002 200 11 0,0002 200 200 9 0,0003 200 9 0,0003 200 9 0,	-	: oc						33.1
200 9 00002 200 10 00002 200 10 00003 200 10 00003 200 10 00003 24 9 000004  V 174 9 000003 25 9 000004  H 1 289 11 00410 0.0140 0.1500 0.0029 218 8 000001 228 8 0.0001 229 8 0.0001 220 9 0.00004  V 132 9 0.0001 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002 220 9 0.0002		o 0						333
200 100002 200 10 000002 200 11 000003 200 11 000003 21 17 24 10 000003 21 17 24 10 000003 21 17 28 11 00410 00140 01500 00029 21 20		, oc						332
200 10 00002 200 11 00003 21 12 24 9 0.0003 22 4 10 0.0003 23 8 11 0.0004 24 9 0.0003 25 11 0.0004 26 11 0.00004 27 25 11 0.0001 28 9 0.0001 29 8 0.0001 20 9 0.0001 20 9 0.0001 21 15	000	0 0	5000					22.5
200 11 00000000000000000000000000000000	004	٧ 5	0.002					554
HI 229 110 00003  1. 174 19 00003  2. 175 24 10 00004  WY 174 29 110 00004  HI 229 111 00410 0.1500 0.0029 0.1500  2. 238 9 0.0001  F 238 9 0.0001  F 132 9 0.0001  F 132 9 0.0001  F 133 9 0.0002  I 1 198 11 0.0002  I 1 10 0.0002		2:	coon.o					355
24     9     0,0003       258     11     0,0410     0,0140     0,1500     0,1500       259     11     0,0410     0,0140     0,1500     0,1500       250     8     0,0001       253     9     0,0001       253     10     0,0001       195     9     0,0001       195     9     0,0004       198     10     0,0002       198     10     0,0002       198     10     0,0002       198     10     0,0002       198     10     0,0002       198     10     0,0002       198     10     0,0002       198     0,0002     0,0003       198     0,0002     0,0003       198     0,0002     0,0003       198     0,0002     0,0003       112     10     0,0004       220     8     0,0004       112     10     0,0004       112     10     0,0005       244     8     0,0006       112     11     0,0006       250     11     0,0006       265     11     0,0006       274     8     0,0006 <t< td=""><td></td><td>Ξ,</td><td></td><td></td><td></td><td></td><td></td><td>336</td></t<>		Ξ,						336
24     9     0,00003       258     11     0,0401     0,0140     0,1500     0,0029     0,1500       289     11     0,0410     0,0140     0,1500     0,1500     0,1500       289     11     0,041     0,0140     0,1500     0,1500     0,1500       208     8     0,0001     0,0001       195     10     0,0001       195     11     0,0013       198     9     0,0001       198     9     0,0001       198     9     0,0002       198     10     0,0002       198     9     0,0004       198     0     0,0002       198     0     0,0002       198     0     0,0002       198     0     0,0002       198     0     0,0002       198     0     0,0002       199     0     0,0002       112     0     0,0004       200     0     0,0002       210     0     0,0004       220     0     0       244     8     0       250     11     0       265     11     0       266     11     0		× ·						337
234     110     0,00004       174     11     0,0410     0,0140     0,1500     0,0029     0,1500       229     11     0,0410     0,0140     0,1500     0,1500     0,1500       229     8     0,0001     0,0001     0,0001     0,0001       238     10     0,0001     0,0001     0,0001       195     9     0,0004     0,0004       198     10     0,0002       198     10     0,0002       198     11     0,0002       198     10     0,0002       198     11     0,0002       198     10     0,0002       198     10     0,0002       198     10     0,0002       198     10     0,0002       198     11     0,0002       198     11     0,0002       220     8     0,0002       220     8     0,0002       230     8     0,0002       244     8     0,0002       211     11     0,0002       244     8     0,0002       250     11     0,0002       265     11     0,0002       276     11     0,0002  <		6	0.0003					338
298         11         0.0003         0.0140         0.1500         0.0029         0.1500           209         8         11         0.0410         0.0140         0.1500         0.0029         0.1500           208         8         0.0001		10	0.0004					110
174   9   0.0003   0.0140   0.1500   0.0029   0.1500   0.0029   0.1500   0.0029   0.1500   0.0029   0.1500   0.0029   0.1500   0.0029   0.1500   0.0029   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0001   0.0002   0.0001   0.0002   0.0001   0.0002		: =						340.
174         19         0,0003         0,1500         0,0029         0,1500           209         8         0,0001         0,0001         0,1500         0,1500         0,1500           208         8         0,0001         0,0002		= «						340
174     11     0.0410     0.0140     0.1500     0.0029     0.1500       208     9     0.0001     0.0001     0.0001       238     9     0.0001     0.0001       195     10     0.0004     0.0001       195     11     0.0150       198     10     0.0002       198     10     0.0002       198     10     0.0002       198     10     0.0005       198     10     0.0005       198     10     0.0005       220     8     0.0140     0.0064       220     8     0.0140     0.0054       240     11     0.0050     0.0012       220     8     0.0040     0.0054       220     8     0.0056     0.0054       112     10     0.0120     0.0026       240     11     0.0020     0.0026       250     8     0.0026     0.0027       260     11     0.0020     0.0020		<b>5</b>	0.0003					341
289     11       208     8     0.0001       208     9     0.0001       238     8     0.0001       238     10     0.0004       195     9     0.0064       195     11     0.0130       198     9     0.0001       198     9     0.0001       198     9     0.0002       198     9     0.0005       198     9     0.0005       153     8     0.0005       153     8     0.0005       153     8     0.0005       153     8     0.0140     0.0054       220     8     0.0140     0.0054     0.0073     0.0550       112     10     0.0120       225     11     0.025       112     10     0.0120       226     11     0.0026		=	0.0410	0.0140	0.1500	0.0029	0.1500	342
208     8       208     9       208     9       209     8       238     9       238     10       238     9       195     9       195     11       195     11       196     0.00015       197     9       198     11       198     11       198     11       198     11       198     11       198     11       200     8       200     8       200     8       200     8       21     9       200     11       200     11       200     8       200     11       200     11       200     11       200     11       200     11       200     11       200     11       200     11       200     11       200     11       200     11       200     11       200     11       200     11       200     11       200     11       200     11 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>343</td>								343
203     8     0.0001       238     8     0.0001       238     9     0.0001       195     10     0.0004       195     10     0.0015       198     9     0.0001       198     9     0.0002       198     10     0.0002       198     9     0.0002       153     8     0.0005       153     8     0.0005       220     8     0.0140     0.0064     0.0073     0.0550       220     8     0.0140     0.0054     0.0073     0.0050       112     10     0.0120       225     11     0.0120       226     11     0.0120       227     11     0.0120       228     9     0.0026		: œ						344
203 8 00001 228 9 0.0001 228 10 0.0001 238 10 0.0001 238 10 0.0001 238 10 0.0001 238 10 0.0002 238 10 0.0002 248 11 0.0002 250 8 0.0002 250 8 0.0005 250 8 0.0005 250 8 0.0005 250 11 0.		<b>o</b> c	1000					44.0
238 8 8 00001 238 9 0.0001 238 10 0.0001 195 9 0.0064 195 9 0.0064 195 10 0.0015 198 8 0.0001 198 9 0.0002 198 11 0.0002 198 8 0.0002 220 9 0.0005 153 9 0.0005 220 8 0.0005 220 11 0.0005 220 11 0.0005 220 11 0.0005 220 11 0.0005 220 220 11 0.0005 220 220 11 0.0005 220 220 11 0.0005 220 220 11 0.0005 220 220 11 0.0005 220 220 220 220 220 220 220 220 220 220		<b>7</b> .	0.0001					345
238 8 0 0001 238 10 0.0001 238 10 0.0001 195 9 0.0004 195 10 0.0015 132 8 0.0001 138 10 0.0002 198 10 0.0002 198 11 0.0002 220 9 0.0005 220 9 0.0140 0.0064 0.0073 0.0590 112 10 0.0120 226 11 0.0012 227 11 0.0012 228 11 0.00550	203	×						346
238     9     0,0001       195     8     0,0004       195     9     0,0004       195     11     0,0015       195     11     0,00130       198     8     0,0002       198     11     0,0002       198     11     0,0002       189     0,0005     0,0005       153     9     0,0005       220     8     0,0005       244     8     0,00550       112     10     0,0120       205     11     0,0026       206     11     0,0026	238	∞						347
238     10     0.0001       195     8     0.0064       195     10     0.0015       132     8     0.0016       138     9     0.0001       198     9     0.0002       198     11     0.0002       198     11     0.0002       153     8     0.0005       220     8     0.0140     0.0064     0.0073     0.0550       220     9     0.0140     0.0064     0.0073     0.0550       244     8     0.0250       112     10     0.0120       205     11     0.0026       206     11     0.0026	238	6	0,0001					348
195   9   0.0064     195   10   0.0015     195   11   0.0130     198   8   0.0002     198   11   0.0002     198   11   0.0002     198   11   0.0005     153   8   0.0005     153   8   0.0140     10   0.0140     11   0.0120     11   0.0120     11   0.0026     11   0.0026     12   14   8   0.0026     11   0.0026     12   14   9   0.0026     15   15   16   0.0120     16   17   17     17   18   0.0026     18   0.0026     19   0.0026     10   0.0120     11   0.0026     11   0.0026     12   0.0026     13   0.0026     14   0.0026     15   0.0026     16   0.0026     17   0.0026     18   0.0026     19   0.0026     10   0.0	_	01	0 0001					349
195   9   0.0064     195   10   0.0015     195   11   0.0130     198   8   0.0001     198   9   0.0002     198   10   0.0002     198   11   0.0002     153   8   0.0005     220   8   0.0016     11   9   0.0140   0.0064   0.0073   0.0590     11   11   1   0.0120     220   11   0.0025     230   244   8   0.0025     241   25   10   0.0120     250   11   0.0120     260   11   0.0026     260   260   260     270   280   20026     280   20026     20026   20026	•	. ∝						350
195   9   0.0064     195   10   0.0064     196   11   0.0115     198   8   0.0001     198   9   0.0002     198   11   0.0002     198   11   0.0005     153   8   0.0140   0.0064   0.0050     101   112   9   0.0056     112   113   9   0.0056     113   114   8   0.0005     115   116   0.0120     117   117   110   0.0026     118   119   0.00056     119   0.00056     110   0.0120     111   112   110   0.00056     112   113   111     113   114   0.00056     114   115   116   0.00056     115   116   0.00056     116   0.00056     117   0.00056     118   0.00056     119   0.00056     110   0.00056     111   0.00056     111   0.00056     112   0.00056     113   0.00056     114   0.00056     115	761	<b>o</b> c	7,000					000
195   110   0.0015   132   8   8   0.0001   132   8   8   0.0001   132   8   8   0.0001   132   132   8   8   0.0002   138   11   0.0002   138   8   0.0002   133   8   8   0.0005   133   8   8   0.0005   132   133   133   134   14   14   14   14		ν.	0.0004					15.
195     11     0.0130       132     8     0.0001       198     8     0.0002       198     10     0.0002       198     11     0.0002       153     8     0.0005       220     8     0.0140     0.0064     0.0590     0.0012       220     9     0.0550     0.0120       112     9     0.0550     0.0120       112     11     0.026       285     9     0.0026		01	0.0015					352
132     8       132     9     0.0001       198     8     0.0002       198     10     0.0002       198     11     0.0002       153     8     0.0005       220     8     0.0140     0.0064     0.00590     0.0012       220     11     0.0140     0.0056     0.0056       244     8     0.0550     0.0120       112     10     0.0120     0.0120       285     9     0.0026	>	=	0.0130					353
132     9     0.0001       198     9     0.0002       198     10     0.0002       198     10     0.0002       153     8     0.0005       220     8     0.0140     0.0064     0.0073     0.0590     0.0012       220     9     0.0550     0.0026       244     8     0.0550     0.0120       112     9     0.0120       112     10     0.0120       285     9     0.0026		<b>∞</b>						354
198     8       198     9     0.0002       198     10     0.0002       198     11     0.0002       153     8     0.0005       220     8     0.0140     0.0064     0.0073     0.0590     0.0012       220     11     0.0550     0.0120       112     9     0.0056     0.0120       112     11     0.0026       285     9     0.0026		6	0.0001					355
198     9     0,0002       198     10     0,0002       198     10       153     8       220     8       220     9     0,0140     0,0064     0,0073     0,0590     0,0012       220     11     0,00550       244     8     0,0550       112     10     0,0120       285     9     0,0026       206     11     0,0026		ox						356
198   10   0.0002   198   11   0.0002   198   11   113   198   11   113   198   11   113   198   11   113   198   11   113   198	861	o	0000					357
153 8 0.0005 153 8 0.0005 220 8 0.0140 0.0064 0.0073 0.0590 0.0012 220 9 0.0140 0.0064 0.0073 0.0590 220 11 0.00550 112 10 0.0120 113 11 0.0026		, C	0000					359
150   151   152   153   154   154   155		? =						000
153   9   0.0005     153   9   0.0005     220   8   0.0140   0.0064   0.00590   0.0012     220   11   0.0550     112   10   0.0120     113   11   0.0026     206   11   0.0026     207   208   208     208   208     208     208   208     208   208     208   208     208   208     208     208   208     208   208     208   208     208   208     208     208   208     208   208     208   208     208   208     208     208   208     208   208     208   208     208   208     208		_ <						926
153 9 0.0005 292 8 220 8 220 8 220 8 220 9 0.0140 0.0064 0.0073 0.0590 0.0012 244 8 112 10 0.0120 113 11 0.0026		×						200
292     8       220     8       220     8       220     9       220     11       244     8       112     9       113     10       114     9       115     10       116     0.0120       117     11       285     9       206     11       206     11		6	0.0005					361
220     8       220     9     0.0140     0.0064     0.0073     0.0590     0.0012       220     11       244     8       112     9     0.0550       113     10     0.0120       112     11       113     11       285     9     0.0026       11     11       206     11	292	00						362
220 9 0.0140 0.0064 0.0073 0.0590 0.0012 220 11 0.0550 112 9 0.0550 113 10 0.0120 114 115 11 0.0026	220	œ						363
220 11 0.0012 0.		0 0	07100	0.0054	6,500.0	0000	61000	95
244 8 112 8 0.0550 112 10 0.0120 285 9 0.0026		n :	0.0.0	0.0004	0.0073	0.0390	0.0012	400
244 8 0.0550 112 10 0.0120 112 11 0.0026 206 11		Ξ,						363
112 9 0.0550 112 10 0.0120 . 112 11 0.0026 206 11		<b>∞</b>						366
112 10 0.0120 112 11 0.0026 206 11		6	0.0550					367
112 11 285 9 0.0026 206 11		01	0.0120					368
285 9 0.0026 206 11		=						369
206		: 6	0.0026					370
								371

Table VIII B
Mage 3 A02 Supermotif with Binding Data

-			Mage	Mage 3 A02 Supermotif with Binding Data	th Binding Data			
Sequence	Position	No. of Amino Acids	A*0201	A*0202	A*0203	A*0206	A*6802	SEQ ID NO.
LIIVLAII	202	∞						377
LIIVLAIIA	202	. 6	0 0008					373
LLGDNOIM	681	∞						374
LLGDNQIMPKA	681	=						375
LLIIVLAI	201	∞						376
LLIIVLAII	201	6	0.0001					377
LLIIVLAIIA	201	01	0.0002			٠		378
LLKYRAREPV	121	9	0.0001					379
LLKYRAREPVT	121	Ξ						380
LLLKYRAREPV	120	=	0.0001					381
LMEVDPIGHL	991	01	0.0005					382
LQLVFGIEL	158	6						383
LQLVFGIELM	158	01						384
LTQHFVQENYL	246	=						385
LVETSYVKV	278	6	0.0001					386
LVETSYVKVL	278	01	0.0002					387
LVEVTLGEV	45	6	0.0001					388
LVEVTLGEVPA	45	=						389
LVFGIELM	160	∞						330
LVFGIELMEV	091	10	0.1100					391
LVGAQAPA	25	∞						392
LVGAOAPAT	25	6	0.0001					303
LVHFLLLKYRA	911	Ξ						394
MVKISGGPHI	290	0	0.0002					395
NQEEEGPST	68	6						396
NQIMPKAGL	193	6						397
NÕIMPKAGLL	193	10						398
NOIMPKAGLLI	193	=						399
PATEEOEA	31	∞						400
PATEEÓEAA	31	6	0.0001					401
PIGHLYIFA	171	6	0.0001					402
PIGHLYIFAT	171	01	0.0003					403
PQGASSLPT	65	6						404
PQGASSLPTT	9	01						405
PQGASSLPTTM	65	=						406
PQSPQGASSL	62	01						407
PTTMNYPL	72	∞						408
PVIFSKASSSL	148	=						409
PVTKAEML	179	<b>∞</b> :						410
PVTKAEMLGSV	129	= (						411
QAALSRKV	90 :	× •	;					412
(AALSKKVA OAALSBKVAEI	9 2	ο =	0.0001					413
CAPATERDEA	<u>8</u> &	- 9	10000					414
QAPATEEQEAA	33 í	2 =						416
QIMPKAGL	194	∞ .						417
QIMPKAGLL QIMBK AGI 11	<u>8</u>	ο 5	0.0001					418
Cilair RAGEEI	<b>*</b>	2	0.0000					419

Table VIII B
Mage 3 A02 Supermotif with Binding Data

OIMPKAGLLII QLVFGIEL QLVFGIELM QLVFGIELMEV QVPGSDPA RALVETSYVK RALVETSYVKV	104			The second secon				The state of the s
JIELMEV SDPA STSYV	202	= ∝						420
IIELMEV SDPA STSYV STSYVKV	159	0 0	0.0010					422
DPA TSYV TSYVKV	159	=	0.3400					423
TSYV TSYVKV	260	œ						424
TSYVKV	276	6	0.0001					425
	276	=						426
KAKEPVIKA	125	6						427
RAREPVTKAEM	125	=						428
RQVPGSDPA	259	6						429
SILGDPKKL	237	6	0.0001					430
SILGDPKKLL	237	10	0.0002					431
SILGDPKKLLT	237	=						432
SLPTTMNYPL	70	01	0.0035					433
SLQLVFGI	157	∞						434
SLQLVFGIEL	157	10	0.0049					435
SLQLVFGIELM	157	=						436
SQHCKPEEGL	7	10						437
STLVEVTL	43	∞						438
STLVEVTLGEV	43	=	0.0140					439
TGEVPAA	46	∞ :						440
LVEVTLGEV	44	0	0.0250	0.0320	1.6000	0.0039	0.1600	441
TOHFVQENYL	247	0 (						442
VAELVHFL	= = =	<b>∞</b> ∢						443
VAELVHFLL	£ :	<b>5</b> .	0.0001					444
VAELVHFLLL	51.	2 :	0.000					445
VIFSKASSSL	44 786	⊇ ∘	0.0001					446
JOENVI EVROV	251	o <u>-</u>						1 878
VTK A FMI GSV	<u> </u>	: =	0000					440
VTKAEMLGSVV	<u>8</u> .	2 =	2000					450
VTLGEVPA	48	; œ						451
TLGEVPAA	48	6	0.0045					452
VVGNWQYFFPV	139	=						453
WQYFFPVI	143	∞						454
/IFATCLGL	176	σ.	0.0180					455
Y V V V LHEIM	797	<b>6</b>	10000					626
TVKVI HHMVKI	283	<b>&gt;</b> =	0.0001					45/

Table IX.a Mage 2 A03 Supermotif with Binding Data

S01 SEQ ID NO.		90 471 90 473 90 475 94 476 94 476 978 979 980 980	
1 A*6801	0.0280	0.0490 -0.0001 0.0990 0.0004	0.0200 0.0220 0.0026 0.00440 0.3800
10i A*330I		00 0.0074 06 -0.0013 00 0.8100 84 0.0047	07 -0.0009 38 0.0056 64 0.0003 00 3.2000 3.2000 50 0.0370 05 -0.0009
A*1101 A*310i	0.0007 0.1900 0.0018 0.0005 0.0008 0.0001 0.0011 0.0031 0.0003	0.0170 0.0700 0.0047 0.0006 0.0002 0.0018 0.7700 0.0009 0.0084 0.0100 0.0014 0.00014	0.0001 0.0022 0.0089 0.0089 0.0120 0.0002 0.0002 0.0002 0.0022 0.0022 0.0022 0.0022 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010
A*0301 A*		0.0110 0.0780 0.0780 0.0074 0.0074 0.0340 0.0062 0.0063 0.0063 0.0063 0.0064 0.0069 0.0069 0.0069 0.0069 0.0069 0.0069	
No. of A* Amino Acids	1 6 1 8 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2 ∞ 2 2 ∞ = = 2 ∞ 2 ∞ 6 2 2 ∞ ∞ 6 2
Position	210 277 249 236 236 224 115 115 102 102	71 188 86 298 299 132 285 278 120	116 116 250 227 26 276 237 237 237 237 237 237 237
Sequence	ALETSYVK ALIETSYVK DLVQENYLEYR DSVFAHPR DSVFAHPR ELSMLEVFEGR ELVHFLLLK ELVHFLLLK ELSEFQAAISR ESFGQAAISR FLLLKYRR	FSTTINYTLWR GLLGDNQVMPK GLSSNQEBEGPR HISYPPLHER KAEMLESVLR KVLHHTLK LLETSYVK LLGDNQVMPK LLLKYRAR LSMLEVFGR	LVHFLLLKYR LVHFLLLKYR LVGENYLEYR MAEVFEGR MAEVFEGR PACYEFLWGPR PLEQRSQHCK PLERALR RALETSYVK RAREPYTK SMLETSYVK RAREPYTK SMLETSYVK RAREPYTK SSNQEEEGPR SSTRNYTLWR SYFAHPR TINYTLWR

	Sinding Data
Table IX B	Mage 3 A03 Supermotif with Binding Data

	SEQ ID NO.	499 500 501 502 503 506 506	509 510 511	513 513 514 515 515 517	519 520 522 533 533	524 525 526	527 528 529 530
	A*6801	0.0022	-0.0001	-0.0001	0.0200	0.0004	0.0860
	A*3301	0.0004	-0.0013	0.0052	-0.0009	0.0003	0.6600
n binding Data	A*3101	60000	-0.0006	0.0012	0.0007	0.0034	0.1700
Wage 2 Aus Supermout with binding Data	A*1101	0.1700 -0.0003 -0.0002 0.0023 0.0011 0.0031 0.0002	0.0570 0.0011 0.0037	0.0190 0.0021 0.0110 0.0056 -0.0004 0.0014	0.1500 0.0022 -0.0002 0.0002	0.1100 -0.0003 0.0012	0.1400 0.0011 0.0005 0.0061
Wage 2 A	A*0301	0.0270 -0.0004 -0.0003 -0.0009 0.0045 0.0011 0.0002	0.1300 0.0069 0.0053	0.0580 0.0280 0.0200 0.0021 -0.0009 -0.0006	0.0290 0.0260 0.0003 0.0003	0.0190 -0.0009 -0.0009	0.0003 -0.0002 0.0016 0.0020
	No. of Amino Acids	6 % 6 I 6 I 2 I 6 S	2 = 0 ∞	∞ <u>0 0 -</u> ∞ <u>0</u> ∞	∞2=2∞	- 2 ∞ ∞	o
	Position	277 236 236 224 115 115 102 119	188 203 204	285 202 189 201 120 225 278	116 266 2 2 3	276 125 237	226 113 227 283
	Sequence	ALVETSYVK DSILGDPK DSILGDPKK ELSYLEGR ELVHFLLK ELVHFLLKYR ESFQAALSR FLLKYRAR FLLKYRAR	GLLGDNQIMPK IIVLAIIAR IVLAIIAR	KVLHHWVK LIIVLAIIAR LLGDNQIMPK LLLIIVLAIIAR LLLKYRAR LSVLEVFEGR	LVHFLLLK LVHFLLKYR PACYEFLWGPR PLEGRSQHCK PLHEWVLR	RALVETSYVK RAREPVTK SILGDPKK	SVLEVFEGR VAELVHFLLLK VLEVFEGR YVKVLHHMVK

Table X A
Mage 2. A24 Supermotif Peptides with Binding Data

Sequence	Position	No. of Amino Acids	A*2401	SEQ ID NO.
AISRKMVEL	108	6		531
ALIEISYVKVL CI GI SYDGI	277	= (		532
CLGLSYDGL	181	~ <u> </u>		533
CYEFLWGPRAL	268	≘ =	0.0004	535
DLESEFQAAI	100	01		536
DLVQENYL	249	8		537
DLVQENYLEY	249	10		538
EFLWGPRAL	270	6	90000	539
EFLWGPRALI	270	10	0.0097	540
EFQAAISRKM	104	10	0.0002	541
ELSMLEVF	224	8		542
ELVHFLLL	115	8		543
ELVHFLLLKY	115	10		544
ETSYVKVL	280	8		545
EVFEGREDSVF	229	=		546
EVVEVVPI	165	~		547
EVVEVVPISHL	165	=		548
EVVPISHL	168	•		549
EVVPISHLY	168	. 6		550
EVVPISHLYI	891	01		551
EVVPISHLYIL	168	=		552
EYLQLVFGI	156	6	3.5000	553
FLWGPRAL	172	∞		554
FLWGPRALI	172	6		555
GIEVVEVVPI	163	01		556
GLEARGEAL	15	6		557
GLEARGEALGL	. <u>15</u>			558
GLLGDNQVM	188	6		529
GLUIVLAI	200	6		260
GLLIIVLAII	200	01		561
GLSYDGLL	183	∞		562
HLYILVTCL	174	6		563
HLYILVTCLGL	174	=		564
HTLKIGGEPHI	289	=		565
IFSKASEY	150	∞		566
IFSKASEYL	150	6	0.0230	567
IFSKASEYLQL	150		0,0950	568
IIVLAIIAI	203	: 6		269
ILVTCLGL	177	∞		570
ILVTCLGLSY	771	10		175
IVLAIIAI	204	8		572
IWEELSML	221	∞	0.0007	573
IWEELSMLEVF	221	=	0.0170	574
KIGGEPHI	292	∞ '		575
KIGGEPHISY	292	10		576

Table X A
Mage 2, A24 Supermotif Peptides with Binding Data

Sequence	Position	No. of Amino Acids	A*2401	SEQ ID NO.
KIWEELSM	220	∞ (		577
N W EELSML KMVELVHF	112	⊃\ ∞	0.0005	578
KMVELVHFL	112	) O		580
KMVELVHFLL	112	01		581
KMVELVHFLLL	112	<u> </u>		582
KTGLLIIVLAI	861	, <u> </u>		584
KVLHHTLKI	285	: 6		585
LIETSYVKVL	278	10		586
LIIVLAII	202	8		587
LIIVLAIIAI	202	01		588
LLGDNQVM	189	∞		589
LLINLAI	201	∞ (		590
LLIIVI AIIAI	102	o :		503
I I MODI VOENV	107	= =		592 :
MODI VOENY	243	_ =		596
LMODILVOENYL	246	2 =		595
LVHFLLLKY	116	<u>:</u> 0		596
LVQENYLEY	250	. 6		597
LVTCLGLSY	178	6		598
LWGPRALI	272	∞	0.1200	665
LYILVTCL	175	<b>∞</b>	0.0086	009
LYILVTCLGL	57 5	01 0	0.0140	601
Mrfuceser Myei vhei	76	ο, ο,	0.0140	602
MVELVHFIL	E E	<b>∞</b> σ		603
MVELVHFLLL	113	, 01		605
PISHLYIL	171	∞		909
PVIFSKASEY	148	10		607
PVIFSKASEYL	148	11		809
PVTKAEML	129	∞		609
QTASSSSTL	37	6		019
OVMPKTGL	194	∞		119
QVMPKTGLL	194	<b>6</b>		612
QVMPKTGLLI	194	10		613
QVMPKTGLLII	194	=		614
QVPGSDPACY	260	01:	2,000	615
KMFPULESEF	£ 5	2 ø	0.0018	010
SESTTINYTL	2 2	° C	0.0150	8.9
SFSTTINYTLW	22	2 =	0.0280	619
STLVEVTL	43	<b>60</b> 1		620
STTINYT	2,2	∞ (		621
SILINAILW	7/	א		770

<u>Table X.A</u> Mage 2 A24 Supermotif Peptides with Binding Da

-		Mage 2 A24 Supermotif Peptides with Binding Data	ing Data	
Sequence	Position	No. of Amino Acids	A*2401	SEQ ID NO.
VFAHPRKI	737	o		
VEAHPRKII	237	× 2		629
VFAHPRKLLM	237	2 -		5C9
VI PNCODE	138	Ξ α		670
SVI PNCODEF	138	× -		979
TOTAL TITLE TO	961	01		/70
SYPPLHEKAL	380	0 3	0.0003	628
	797	0.	0.1000	679
ראוספבישו	790	2		630
TINYTEW	73	∞		631
/FAHPRKL	238	•	0.0005	632
/FAHPRKLL	238	6	90000	633
VFAHPRKLLM	238	01		634
/FEGREDSVF	230	0	. 00004	635
/IFSKASEY	149	2 a		636
VIESKASEVI	691			000
	700	2.		63/
THE ICK	780	∞ .		638
LKNCQUF	139	∞		639
/LRNCQDFF	139	6		640
/MPKTGLL	195	~	-0.0004	641
MPKTGLLI	195	6	0.2300	642
MPKTGLLII	195	01	0.0580	643
/TCLGLSY	179	œ		644
/TCLGLSYDGL	179	•=		645
TKAEMLESVL	130			646
VEVVPISHL	991	2		647
VEVVPISHLY	991	:=		648
VVPISHLY	691	÷∝		640
IA IHSIdA	691			640
VVPISH VII	691	, S		050
	6	01		100
	9/1	•		652
/ILV ICLGLSY	9/.1	=		653
/LQLVFGI	157	<b>∞</b>		654
VKVLHHTL	283	6		655
VVKVLHHTLKI	283	=		959
		•		

Table X B
Mage 3 A24 Supermotif Peptides with Binding Data

SEQ ID NO.	657 658 659 660 661 663	664 665 667 667 670 671 671 672 673	676 677 680 681 683 684 687 688 688	692 692 693 694 698 698 699 701
A*2401	0.0004	0.0006		-0.0004 0.0120 0.0160 0.0910
No. of Amino Acids				
Position No Amino	9 179 111 179 8 8 181 181 9 118 181 181 182	100 2270 165 165 224 115 115 113 113 113 116 116 116 116 116 116 116		249 8 8 8 249 10 2298 10 2298 10 10 2298 10 10 2298 10 2298 11 17 17 12 12 12 12 12 12 12 12 12 12 12 12 12
Sequence		H W HL	EVDPIGHLYI EVDPIGHLYIF EVDPIGHLYIF EVFECREDSIL EVFECREDSIL FLWGPRAL OIELMEVDPI GLEARGFAL GLEARGFAL GLEARGFAL GLEARGFAL GLEARGFAL GLEANQIM GLLINLAII GLEARGFAL GLEANQIM GLUNLAII GLEARGFAL GLEANGLAI GLEARGFAL GLEANGLAI GLEARGFAL GLEANGLAI GLEARGFAL GLEANGLAI GLEARGFAL GLEANGLAI	JO S. W. Y.

Table X B
Mage, 3 A24 Supermotif Peptides with Binding Data

SEQ ID NO.	702 703 704 705 707 707 710 711 711 712 713 722 723 724 725 726 727 728	727 729 730 731 734 735 736 740 741 742 743
A*2401	0.4200 0.0300 -0.0004 0.0260	0.0140 0.0480 0.5300 0.0170 0.0270
No. of Amino Acids	∞ 6 2 ∞ <u>-</u> ∞ 2 6 ∞ 6 2 <u>-</u> 6 ∞ ∞ ∞ 6 <u>-</u> 2 <u>-</u> 2 <u>-</u> 2 ∞ 6	∞26 <u>72626∞∞67∞∞627∞6</u>
Position	195 195 195 221 222 223 220 201 202 203 246 246 246 246 266 278 278 278 278 278 278 278 278 278 278	25 29 29 29 29 29 29 29 29 29 29 29 29 29
Sequence	IMPKAGLL IMPKAGLLI IMPKAGLLI IWEELSVL IWEELSVL IWEELSVL IWEELSVL KISGGPHI KISGGPHI KISGGPHI KISGGPHI KISGGPHI KISGGPHI KISGGPHI LICORLUHF KVAELVHF KVAELVHF KVAELVHF LL LV	LYIFATCLGL MLGSVVGNWW MLGSVVGNWQY MVKISGGPHI NWQYFFPVIF NYPLWSQSY PIGHLYIF PTTMNYPLW PVIFSKASSSL PYTKAEML QIMPKAGLLI QIMPKAGLLI QIMPKAGLLII QUMPKAGLLII

Table X B
Mage 3 A24 Supermotif Peptides with Binding Data

	SEQ ID NO.	747 748 750 751 752 753 754 765 765 767 777 777 776 777 776
DINGING DATA	A*2401	0.1200 0.0026 0.0420 0.5900 0.0049 -0.0004
Mage 3 A44 Supermout Repuges with binding Dat	No. of Amino Acids	∞ ♥ 5 = ∞ 5 = 5 ∞ ∞ ♥ 5 = ∞ 5 ♥ ♥ = ∞ ♥ € 5 ∞ ∞ ♥ ♥ = ∞ ±
	Position	237 237 237 237 237 230 300 300 300 300 300 300 300 300 300
	Sequence	QYFFPVIF SILGDPKKLL SILGDPKKLL SILGDPKKLL SILGDPKKLL SILGTMNYPL SLPTTMNYPLW SLPTTMNYPLW SLQLVFGIELM STRPDLESEF STLQLVFGIELM STRPDLESEF STLQLVFGIELM STRPLLESEF STVGNWQYF SVVGNWQYF SVVGNWQYF SVVGNWQYF SVVGNWQYF VYGNWQYF

Table XI A
Mage 2. B07 Supermotif Peptides with Binding Data

Sequence	Position	No. of Amino Acids	B*0702	SEQ ID NO.
ĺ	30	01	0.0002	778
	216	01	0.0003	977
	265	o 0	1000:0	781
	296	· 6	0.1100	782
	128	. ∞	0.0010	783
	128	6	0.0001	784
	86	8	-0.0002	785
	86	10	0.0002	786
PDLESEFOAA	86	=	-0.0001	787
	147	8	0.0003	788
	147	=	0.0004	789
	274	10	0.0008	790
SPRALIETSYV	274	=	0.1300	191
	94	: ∞	0.0063	792
	241	10	0.0400	793
HPRKLLMQDLV	241	=	0.0042	794
	==	80	-0.0002	795
	961	&	0.0190	796
	961	6	0.0020	797
	961	10	0.0003	798
	961	=	0.0099	466
	61	8	-0.0002	800
PPHSPQGASSF	19	=	-0.0003	801
	302	8	0.0026	802
	09	6	0.0001	803
	2	. ∞	0.0007	804
_	58	=	90000	805
	261	6	0.0001	806
VPGSDPACYEF	261	=	-0.0001	807
	170	∵∞	0.0170	808
	170	6	0.2500	808
	170	10	0.0027	810
	301	∞	-0.0002	
	301	6	0.2700	812

Sequence         Position         No of Amino Acids         BY0702         SEQ1D NO.           AAT-REDGEAA         30         9         00001         81.4           AAR-REDGEAA         30         9         00001         81.4           ARAFREDGEAA         30         9         00002         81.8           BPCHLYIN         170         9         0.0002         81.8           BPCHLYING         170         9         0.0002         81.8           BPCHLYING         170         9         0.0002         81.8           BPCHLYING         241         11         0.0002         82.8           CHALVESTY			Table XI B           Mage 3 B07 Supermotif Peptides with Binding Data	ith Binding Data	
30 00002 265 10 10 00002 265 8 8 0 000002 265 9 9 000001 170 8 8 0 00001 170 10 10 00001 241 110 00001 241 110 00001 241 110 00001 241 110 00001 241 110 00001 254 111 10 00001 254 111 00001 274 111 8 8 000002 274 111 8 8 000003 275 11 8 8 000003 276 11 8 8 000003 277 11 0 9 000003 278 11 0 000003 279 270 11 0 000003 270 11 0 000003 271 11 0 9 000003 272 274 11 0 9 000003 273 274 11 0 9 000003 274 11 0 9 000003 275 276 11 0 000003 277 277 11 0 9 000003 278 279 11 0 000003 279 270 11 0 000003 270 270 000003 271 11 0 000003 271 11 0 000003 272 273 11 0 000003 273 274 11 0 000003 274 11 0 000003 275 275 275 275 275 275 275 275 275 275	nce	Position	No. of Amino Acids	B*0702	SEQ ID NO.
216       10       0,0002         285       8       0,0001         285       9       0,0001         170       9       0,0001         170       10       0,0001         170       10       0,0001         241       11       0,0001         128       8       0,0001         178       8       0,0001         18       0,0001         19       0,0002         274       11       0,0001         178       8       0,0001         18       0,0001         19       0,0002         11       8       0,0002         14       8       0,0002         19       0,0002       0,0002         19       0,0002       0,0002         19       0,0002       0,0002         19       0,0002       0,0002         19       0,0002       0,0002         19       0,0002       0,0002         10       0,0002       0,0002         10       0,0002       0,0002         10       0,0002       0,0002         10       0,0002       0,0002	reeqea	30	6	0000	813
256 265 267 268 268 269 269 270 271 270 271 271 271 272 274 274 274 274 274 274 274 274 274	EEQEAA	30	01	0.0002	814
265 265 8 9 9 0.0002 170 170 9 9 0.0002 171 171 172 9 0.0002 172 241 111 0.0002 173 8 0.0002 174 111 0.0003 175 8 8 0.0003 175 17 1 10 10 0.0003 175 17 1 10 10 0.0003 176 177 1 10 10 0.0003 177 1 10 10 0.0003 178 1 11 0.0003 179 1 10 0.0003 170 1 10 0.0003 170 1 10 0.0003 171 1 10 0.0003 171 1 10 0.0003 172 1 10 0.0003 173 1 10 0.0003 174 1 11 0.0003 175 1 11 0.00	KIWEEL	216	01	1000:0	815
170         8         0.00001           170         9         0.0001           241         10         0.0001           242         11         0.0001           243         11         0.0001           250         9         0.0001           98         8         0.0001           98         0.0001         0.0002           98         10         0.0002           274         11         0.0002           274         10         0.0002           274         11         0.0002           274         11         0.0002           11         8         0.0002           12         8         0.0002           136         0.0002         0.0002           14         11         0.0002           156         8         0.0002           16         0.0002         0.0002           16         0.0002         0.0002           16         0.0002         0.0002           16         0.0002         0.0002           16         0.0002         0.0002           16         0.0002         0.0002	YEFL	265	∞	-0.0002	816
170     8     -0.0002       170     9     0.0001       241     10     0.0001       241     11     -0.0001       128     8     0.0001       128     8     0.0001       128     8     0.0001       128     8     0.0001       129     9     0.0002       274     10     0.0002       274     10     0.0002       274     10     0.0002       274     11     0.0002       274     10     0.0002       274     11     0.0002       274     11     0.0002       274     11     0.0002       274     11     0.0002       196     0.0002     0.0001       196     0.0002     0.0001       196     0.0002     0.0001       196     0.0002     0.0001       196     0.0002     0.0001       197     0.0002     0.0001       261     11     0.0002       261     0.0002     0.0002       271     0.0002     0.0001       281     0.0002     0.0002       291     0.0002     0.0002       200     0.000	YEFLW	265	6	0.0001	817
170     9     0,0001       241     11     0,0004       241     11     0,0004       128     9     0,0001       128     8     0,0001       98     10     0,0001       98     10     0,0001       98     11     0,0002       147     8     0,0001       274     11     0,0002       274     11     0,0002       274     11     0,0002       274     11     0,0002       11     0,0002     0,0002       12     8     0,0002       13     0,0002     0,0001       14     8     0,0002       15     0,0002     0,0002       16     11     0,0002       17     9     0,0002       18     0,0002       26     9     0,0002       26     9     0,0002       26     9     0,0002       27     11     0,0002       26     9     0,0002       27     11     0,0002       28     0,0002       29     0,0002       30     0,0002       30     0,0002       30     0,000	HLYI	170	<b>∞</b>	-0.0002	818
241     10     00002       241     11     00001       128     8     00010       128     8     0001       128     8     00001       128     8     00001       129     00002       147     8     00002       294     8     00002       274     10     00002       274     10     00002       274     11     8     00002       274     8     00002       274     11     9     00002       11     8     00002       120     00002       130     00002       140     00002       150     00002       160     00002       17     10     00002       18     00002       196     8     00002       197     00002     00002       198     00002     00002       201     00002     00002       201     00002     00002       201     00002     00002       201     00002     00002       201     00002     00002       201     00002     00002       201     00002<	HLYIF	170	6	0.0001	618
241     11     -0.0004       60     9     0.0001       128     8     0.0001       98     8     0.0002       98     10     0.0002       98     11     0.0002       98     11     0.0002       147     8     10     0.0003       274     11     0.0002     0.0002       71     11     0.0002     0.0002       196     8     0.0002     0.0002       196     11     0.0002     0.0002       196     11     0.0002     0.0002       196     11     0.0002     0.0002       196     11     0.0002     0.0002       196     11     0.0002     0.0002       196     11     0.0002     0.0002       196     11     0.0002     0.0002       197     11     0.0002     0.0002       198     11     0.0002     0.0002       201     11     0.0002     0.0002       201     11     0.0002     0.0002       201     11     0.0002     0.0002       201     10     0.0002     0.0002       201     0.0002     0.0002     0.0002	HLYIFA	170	10	0.0002	820
241     11       128     9       128     8       98     0.0001       98     0.0001       98     0.0001       98     0.0001       98     0.0002       98     0.0001       147     8       127     0.0002       274     11       11     8       274     11       11     0.0002       274     11       11     0.0002       274     11       11     0.0002       12     0.0002       13     0.0002       14     8       15     0.0002       16     0.0002       17     10       18     0.0002       19     0.0002       10     0.0002       11     0.0002       12     11       13     0.0002       14     11     0.0004       15     0.0002       16     0.0002       17     11     0.0004       18     0.0001       19     0.0002       261     11     0.0002       27     0.0002       28     0.0002	CLLTQHF	241	02	0.000	821
128   8   0,000   1,	LLTQHFV	241	:=	-0 0004	877
128       8       0.0001         98       0.0001         98       0.0001         98       0.0001         98       0.0002         98       0.0002         274       11       0.0002         274       10       0.0002         274       11       0.0002         274       11       0.0002         274       11       0.0002         274       11       0.0002         274       11       0.0002         11       0.0002       0.0002         12       0.0002       0.0002         13       0.0002       0.0002         14       8       0.0002         15       0.0002       0.0001         16       0.0002       0.0002         17       8       0.0002         261       8       0.0002         261       8       0.0002         261       9       0.0002         261       9       0.0002         261       9       0.0002         261       9       0.0002         261       9       0.0002         2	SPOGA	09	. 0	10000	873
128       9       0.0001         98       8       0.0002         98       11       0.0002         98       11       0.0002         147       8       10       0.0003         274       11       8       0.0002         274       11       0.0002       0.0002         11       8       0.0002       0.0002         11       9       0.0002       0.0001         196       9       0.0001       0.0001         196       9       0.0001       0.0001         196       9       0.0002       0.0001         196       9       0.0002       0.0001         196       9       0.0002       0.0001         261       11       0.0002       0.0001         271       8       0.0002       0.0001         271       9       0.0002       0.0001         271       9       0.0002       0.0001         271       9       0.0002       0.0001         271       9       0.0002       0.0001         271       9       0.0002       0.0001         271       0.0002	KAEM	128	\ O	01000	629
98 8 8 -0.00001 98 11 -0.0001 98 10 0.0002 98 11 -0.0001 147 8 8 0.0003 274 10 0.0002 274 11 8 8 0.0002 274 8 8 0.0002 275 11 8 8 0.0002 276 10 0.0001 196 196 11 0.0002 261 11 0.0002 261 11 0.0002 261 11 0.0002 261 11 0.0002 261 11 0.0001 261 11 0.0002 261 11 0.0002 261 11 0.0002 261 11 0.0002 261 11 0.0002 261 11 0.0002 261 11 0.0002 261 11 0.0002 261 11 0.0002 261 11 0.0002	KAFMI	128	<b>0</b> 0	0.0010	570 500
98 10 0.0002 98 11 0 0.0002 98 11 0 0.0002 296 9 0 0.0003 274 10 0 0.0003 274 11 0 0 0.0002 11 8 8 0.0002 196 8 0 0.1300 196 9 0 0.1300 196 196 10 0.0003 196 11 0.0002 61 8 8 0.0003 61 8 8 0.0000 61 8 8 0.0000 61 8 8 0.0000 61 8 8 0.0000 61 8 8 0.0000 61 8 8 0.0000 61 8 8 0.0000 61 8 8 0.0000 61 8 8 0.0000 62 61 8 8 0.0000 63 61 8 8 0.0000 64 8 8 0.0001 77 8 8 0.0001 77 8 8 0.0001 77 8 8 0.0001	COEE	971	Σ, (	0.000	\$25
98 110 0,0002 296 274 11 0,0001 274 11 0,0002 274 11 0,0002 275 11 0,0002 276 11 0,0002 277 11 0,0002 277 11 0,0002 278 10 0,0002 279 196 196 11 0,0003 270 281 11 0,0002 271 11 0,0002 271 11 0,0002 272 11 11 0,0002 273 11 0,0002 274 11 0,0002 275 1 11 0,0002 276 1 11 0,0002 277 8 1 0,0002 278 1 1 0,0002 279 1 1 0,0002 271 1 1 0,0002 271 1 1 0,0002 271 1 1 0,0002 271 1 1 0,0002 271 1 1 0,0002		98	<b>~</b>	-0.0002	826
98 111 -0.0001 296 296 99 0.0003 274 110 0.0002 274 111 98 0.1900 0.10002 196 196 196 196 196 197 111 196 197 111 197 111 111 111 111 111 111 111	CSELCA	86	01	0.0002	827
147     8     0,0003       274     10     0,0002       274     11     0,1900       94     8     0,0002       11     8     0,0002       11     9     0,0002       196     8     0,0001       196     10     0,0001       196     10     0,003       196     11     0,000       61     8     0,000       64     8     0,000       261     11     0,000       261     11     0,000       271     8     0,000       272     11     0,000       273     11     0,000       274     8     0,000       275     0,000     0,000       301     8     0,000       301     8     0,000       301     9     0,000       301     9     0,000       301     9     0,000	CSEFOAA	86	_	-0.0001	828
296     9     0.8800       274     11     0.1900       274     11     0.1900       94     8     -0.0002       71     8     0.0770       71     10     0.0001       196     8     0.1300       196     9     0.0170       196     10     0.0031       196     11     0.0031       196     11     0.0002       61     8     -0.0002       64     8     0.0049       561     11     -0.0001       261     8     0.0001       77     8     -0.0002       301     8     -0.0002       301     8     -0.0002       301     8     -0.0002       301     8     -0.0002       301     9     0.0007       9     0.0007       9     0.0007       9     0.0007       9     0.0007       9     0.0007       9     0.0007       9     0.0007       9     0.0007       9     0.0007       9     0.0007       9     0.0007       9     0.0007       9 <t< td=""><td>SKA</td><td>147</td><td>∞</td><td>0.0003</td><td>829</td></t<>	SKA	147	∞	0.0003	829
274     10     0.0002       94     8     0.1900       94     8     -0.0002       11     8     -0.0002       71     10     0.0770       196     8     0.0770       196     9     0.1300       196     11     0.0031       196     11     0.0031       196     11     0.0002       61     8     -0.0002       64     8     0.0049       561     11     -0.0001       261     8     0.0081       261     11     -0.0002       301     8     -0.0002       301     8     -0.0002       301     8     -0.0002       301     9     0.0027	YPPL	296	6	0.8800	830
274     11     0.1900       94     8     -0.0002       11     8     -0.0002       71     10     0.0770       196     8     0.1300       196     9     0.1300       196     9     0.0170       196     11     0.0280       61     11     0.0280       64     8     -0.0002       64     8     0.0049       64     8     0.0001       261     11     -0.0001       77     8     -0.0002       301     8     -0.0002       301     8     -0.0002       301     9     0.0027	LVETSY	274	10	0.0002	831
94 8 6.0002 71 8 6.0002 71 10 8 0.0770 71 10 10 0.0071 196 8 8 0.1300 196 11 0.0031 196 11 0.0002 61 8 8 0.0280 61 8 8 0.0049 58 11 0.0002 64 8 0.0001 77 8 8 0.0001 77 8 8 0.0001 77 8 8 0.0002 70 0.0002 301 8 6.0002	VETSYV	274	=	0.1900	832
11     8     -0.0002       71     9     0.0770       71     10     0.0001       196     8     0.170       196     9     0.0170       196     10     0.0170       196     10     0.0031       196     11     0.0031       61     8     -0.0002       64     8     0.0049       64     8     0.0081       261     11     -0.0001       261     11     -0.0002       301     8     -0.0002       301     8     -0.0002       301     8     -0.0002       301     9     0.0027	PDL	94	8	-0.0002	833
71     9     0.0770       196     8     0.0001       196     9     0.1300       196     10     0.0170       196     10     0.0170       196     11     0.0031       197     0.0031       198     0.0002       201     8     0.0004       201     11     0.0001       201     11     0.0001       201     11     0.0001       201     11     0.0001       201     8     0.0002       301     8     0.0002       301     8     0.0007       301     9     0.0007	)LEA	Ξ	&	-0.0002	834
71     10     0.0001       196     8     0.1300       196     9     0.0170       196     10     0.0031       196     11     0.0280       302     8     -0.0002       61     11     0.0002       58     11     0.0049       64     8     0.0081       261     11     -0.0001       77     8     -0.0002       301     8     -0.0002       301     9     0.0027	<b>INYPL</b>	71	6	0.0770	835
196     8     0.1300       196     9     0.0170       196     10     0.0031       196     11     0.0280       302     8     -0.0002       61     11     0.0049       58     11     0.0049       64     8     0.0081       261     9     0.0081       77     8     -0.0002       301     8     -0.0002       301     8     -0.0002       301     9     0.0027	<b>INYPLW</b>	71	10	0.0001	836
196     9     0.0170       196     10     0.031       196     11     0.0280       302     8     -0.0002       61     8     -0.0002       64     8     0.0049       64     8     0.0081       261     9     0.0001       77     8     -0.0002       301     8     -0.0002       301     8     -0.0002       301     9     0.0027	GLLI	196	∞	0.1300	837
196     10     0.0031       196     11     0.0280       302     8     -0.0002       61     8     -0.0002       58     11     0.0049       64     8     0.0081       261     9     0.0001       77     8     -0.0002       301     8     -0.0002       301     8     -0.0002       301     9     0.0007	GLLII	196	6	0.0170	838
196     11     0.0280       302     8     -0.0002       61     8     -0.0002       58     11     0.0049       64     8     0.0081       261     9     0.0001       77     8     -0.0002       301     8     -0.0002       301     9     0.0027	GLLIIV	961	.01	0.0031	836
302     8     -0.0002       61     8     -0.0002       58     11     0.0049       54     8     0.0041       261     9     0.0081       77     8     -0.0002       301     8     -0.0002       301     9     0.0027	GLLIIVL	961	:=	0.0280	840
61 8 -0.0002 58 11 0.0049 54 8 0.0081 261 9 0.0081 261 11 -0.0001 77 8 8 -0.0002 301 8 0.0027	:MVL	302	; ∝	-0000	841
61 11 0.0049 58 11 0.0049 64 8 0.0001 261 9 0.0001 77 8 8 -0.0002 301 8 0.0002	OGA	19	o	20000	647
58 11 -0.0001 64 8 8 0.0081 261 9 0.0001 77 8 8 -0.0002 301 8 0.0027	OGASSL	; ;	o =	20000	047 043
261 8 0.0081 261 9 0.0081 261 11 -0.0001 77 8 -0.0002 301 8 0.0002	OSBOGA		= :	0.0049	040
Y 261 8 0.0081 YE 261 11 -0.0001 ' 301 8 -0.0002 ' 301 8 0.0027	(3r(dA	80 4	Ξ,	100010-	844
201 9 0.0001 77 8 8 -0.0002 301 8 0.002 301 9 0.0027	133L	\$ 50	∞ (	0.0081	845
201 11 -0.0001 77 8 -0.0002 301 8 -0.0002 301 9 0.0027	DAC I	107	<b>5</b> ;	0.0001	846
301 8 -0.0002 301 8 -0.0002 . 301 9 0.0027	Jrac 1 cr	197	Ξ,	-0.0001	847
. 301 8 -0.0002 . 301 9 0.0027	SUSY	// 8	∞ .	-0.0002	848
9 0.0027	EW V	301	∞ :	-0.0002	849
	IEWVL	301	6	0.0027	850

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-5	Mage 2 B27 Supermotif Peptides		
8 = 0 = 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Position	No. of Amino Acids	SEQ ID NO.
= 2 = 8 0 0 0 = 8 = 8 2 8 2 0 0 = 0 8 0 2 = 0 0 0 = 0 0 0 0 0 0 0 0 0 0 0 0 0	240	8	851
Q = 8 0 0 0 = 8 = 8 2 8 0 0 0 = 0 8 0 0 0 = 0 8 0 0 0 0 0 0 0	240	=	852
= 8 6 9 6 = 8 = 8 9 8 9 6 6 = 6 8 6 E 9 E 9 E 9 E 9 E 9 8 9 6 6 E 9 E 9 E 9 E 9 E 9 E 9 E 9 E 9 E	126	10	853
8 6 9 6 = 8 = 8 9 8 9 6 6 = 6 8 6 9 = 9 = 9 = 9 = 9 8 8 9 6 6 1 6 8 8 9 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	126	=	854
ο Ω ο I ∞ I ∞ Ω ∞ Ω Ω ο ο I Ω ∞ ο Ω I Ω ο I Ω ∞ ο Ω Ω Ω Ω ο Ω Ω Ω Ω ο Ω Ω Ω Ω ο Ω Ω Ω ο Ω Ω Ω ο Ω Ω ο Ω Ω ο Ω Ω Ω ο Ω Ω ο Ω Ω ο Ω ο Ω Ω ο Ω ο Ω Ω ο		8	855
0 6 I 8 I 8 2 8 0 6 I 6 8 6 I 9 I 9 I 9 I 9 I 9 I 9 I 9 I 9 I 9 I	219	6	856
6 I 8 I 8 2 8 2 6 6 I 6 8 6 I 2 6 I 2 6 I 2 8 8 2 6 6 6 I 6 8 6 I 6 I 6 I 6 I 6 I 6 I 6 I	219	10	857
	291	6	858
8 = 8	291	=	829
	140	8	098
8 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	140	=	861
0. 8 8 0. 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	297	80	862
8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	62	10	863
01 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	161	8	864
6 6 T 6 8 6 D T 0 6 T 0 5 8 8 0	197	10	865
6 I 6 8 6 2 I 2 6 I 2 I 2 8 8 2	275	6	998
	242	6	867
6 & 6 & C = 1 & C = 0 & 6 & C = 0 & C	95	=	898
∞ 6 0 1 1 0 6 1 0 1 0 2 8 8 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	∞	6	869
6 01 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	243	8	870
0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	Ξ	6	871
0 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ξ	10	872
01 6 = 1 0 0 8 8 01 01 01 01 01 01 01 01 01 01 01 01 01	Ξ	=	873
6 0	173	10	874
1.0 1.0 8 8 8 1.0 1.0 1.0	152	6	875
01 1.1 8 8 8 10 10	152	=	876
10 8 8 8 10	110	01	877
10 8 8 10	110	=	878
8 8 10	[3]	10	879
8 10	117	8	880
10	284	&	188
	284	10	882

	Table XII B Mage 3 B27 Supermotif Peptides	KII B ermotif Peptides	
Sequence	Position	No. of Amino Acids	SEC
AREPVTKAEM	126	10	
AREPVTKAEML	126	=	
ARGEALGL	81	∞	
EKIWEELSVL	219	01	
GHLYIFATCL	173	01	
KKLLTQHF	243	*	
PHISYPPL	297	8	
PHISYPPLHEW	297	=	
PKAGLLII	197	8	
PKAGLLIIVL	197	01	
PKKLLTQHF	242	6	
PRALVETSY	275	6	
QHCKPEEGL	∞	6	
QHFVQENY	248	∞	
QHFVQENYL	248	6	
QHFVQENYLEY	248	=	
RKVAELVHF	==	6	
RKVAELVHFL	==	01	
RKVAELVHFLL	=	=	
SKASSSLQL	152	6	
SKASSSLQLVF	152	=	
SRKVAELVHF	011	01	
SRKVAELVHFL	110	=	
VHFLLLKY	117	∞	
VKISGGPHI	291	6	
VKISGGPHISY	291		
VKVLHHMVKI	284	10	

Ansigner         Position         Amino Acids         SEQ ID NO.           AASEKAWY         107         8         91           AASEKAWY         107         11         91           AASEKAWE         107         11         91           AASEKAWE         11         9         91           ASETOLOV         154         9         91           ASESTILA         154         1         91           ASESTILA         256         10         91           ASESTILA         256         10         92           ASESTILA         256         10         92           ASESTILA         256         10         92           ASESTILA         17         9         92           A		CARLOS TITATION TARREST TO A STATE OF THE ST	AANTAA III	
107 107 108 1184 1184 1184 1184 1184 1184 1184	Sequence	Position	No. of Amino Acids	SEQ ID NO.
1979 1974 1975	ISRKMV	101	o	010
1675 154 154 154 155 165 175 175 175 175 175 175 175 17	ISRKMVFI	101	9 5	017
154. 154. 154. 155. 156. 157. 157. 157. 157. 157. 157. 157. 157	ISRKMVELV	201	2 =	116
154   154   154   154   154   154   154   154   154   154   155	EYLOLV	154	; oc	110
6.8 6.8 8.8 8.8 9.9 3.9 5.9 5.9 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	EYLQLVF	154	0 0	914
6.8 9.9 9.9 2.15 2.26 2.36 1.17 1.17 1.17 1.27 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.20 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.29 2.39 3.3	EYLQLVFGI	154	11	918
39 9 8 8 8 10 236 215 215 215 215 215 216 226 226 226 229 229 229 229 229 229 22	ASSESTTI	89	8	916
3.9  2.15  2.15  2.26  2.26  2.27  2.28  2.29  2.20  2	SFSTTINY	89	10	917
215 236 215 236 236 236 237 237 237 237 237 237 237 237 237 237	SSSTLV	39	∞	816
215 236 236 237 137 137 137 137 138 138 138 138 139 149 150 160 160 160 160 160 160 160 16	SSSTLVEV	39	01	616
215 236 236 17 17 17 18 18 18 28 28 28 28 28 28 28 28 28 28 28 28 28	PEEKIW	215	∞	920
236 236 11 17 17 18 137 137 138 239 239 239 248 253 253 263 263 263 263 263 263 263 263 263 26	PEEKIWEEL	215	=	921
236 17 17 18 19 19 19 1837 1839 18 18 18 18 18 18 18 18 18 18 18 18 18	VFAHPRKL	. 236	01	922
17   17   19   19   19   19   19   19	VFAHPRKLL	236	=	923
17 137 137 137 138 238 239 240 250 260 260 260 260 260 260 260 26	SGEALGL.	17	6	924
102 280 239 239 239 239 239 239 240 250 250 260 260 27 280 280 290 290 290 290 290 290 290 290 290 29	RGEALGLV	17	01	925
137   137   10   137   10   139   239   8   8   8   8   8   8   8   8   8	<b>FQAAI</b>	102	∞	926
137 280 280 239 239 239 151 151 151 151 151 171 263 263 263 263 263 263 263 263 263 263	/LRNCQDF	137	01	927
280 239 239 239 239 239 151 151 151 17 71 71 71 71 71 71 71 71 71 71 71 71	/LRNCQDFF	137	=	928
239 239 239 151 151 151 211 211 212 263 263 263 263 263 263 263 263 263 26	YVKVL	280	∞ :	929
151 151 151 151 151 151 151 151	HPRKLL	239	∞ (	930
151   151   161	1PKKLLM	239	6	931
151	ASETL	151	∞ :	932
71 71 71 71 67 67 67 63 263 63 63 63 63 63 63 63 63 63	ASETLAL	151	0. :	933
71 67 67 67 263 263 289 289 172 172 188 8 199 199 199 193 153 153 160	ASETLALY	151	= 0	934
67 67 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ALL VIII		y :	935
263 263 263 263 263 289 289 1172 172 109 109 299 1132 153 153	SESTI	1/	⊇ σ	930
263 263 263 263 263 289 289 172 172 172 188 8 199 199 199 153 153	SSECTION	10	\ <u> </u>	920
263 263 263 289 172 172 172 18 199 199 193 153 163 163 163 163	DACVEE	763	<u> </u>	938
263 63 63 289 172 172 109 109 109 132 133 153 163 163 163 163 163 163 163	PACYEE	263	01	939
63 289 172 173 109 109 299 113 132 153 153 163 17 18 19 10 10 10 10 10 10 10 10 10 10	PACYFELW	263	2 =	940
289 11 172 8 173 8 109 8 8 8 109 9 11 1 132 8 153 8 153 8	OGASSF	£9	: 0	942
F F 172 8 8 11 11 11 11 11 11 11 11 11 11 11 11	KIGGEPHI	289	· =	576
1.	LYILV	172	∵∞	944
AL 109 8 AL 299 11 132 8 133 8 153 8 16 153 9 17 15	LYILVTCL	172	=	945
, 109 9 HF 109 11 AL 299 11 132 8 132 9 153 8 7 153 9	KMVEL	601	∞	946
AL 299 11 AL 132 8 L 132 9 L 132 9 L 153 9 / 153 9	KMVELV	601	6	947
AL 299 11 132 8 132 9 153 8 7 153 9	KMVELVHF	601	=	948
132 8 132 9 153 8 153 9 16 153 10	PPLHERAL	299	11	949
L 132 9 153 8 V 153 9 VF 153 10	EMLESV	132	∞	950
V 153 8 V 153 9 VF 153 10	EMLESVL	132	6	951
153 9 153 10	SEYLQL	153	∞	952
153	SEYLQLV	153	6	953
	SEYLQLVF	153	10	954

Table XIII A

Sequence         Position           KTGLLIIVL         198           KTGLLIIVLAI         198           KTGLLIIVLAI         198           KTGLLIIVLAI         106           QAAISRKMV         106           QAAISRKMV         106           QAAISRKWV         106           QAAISRKWV         106           QAAISRXIL         37           QAAISRXIL         276           RALIETSY         276           RAREPYTKAEM         40           SSFSTTINY         41           SSSTLVEVI         42           SSTLVEVIL         43           STLVEVIL         43           STLVEVIL         43           STRINYTLW         38           TASSSSTL         72           TASSSSTL         72           TASSSSTL <td< th=""><th></th><th></th></td<>		
	No. of Amino Acids	SEQ ID NO.
	6	956
		250
	: °	850
	2 4	976
	∞	656
	6	096
	=	196
	6	962
	01	196
_	'∞	964
	• •	596
	· <del>=</del>	996
	= =	067
	= =	100
	= '	896
	6	696
	=	970
	=	176
	6	972
	=	973
	8	974
	01	975
	6	926
	8	716
		846
	∞	616
	6	086
	8	186
	6	982
	=	983
	=	984
TDX	8	985
TDC	8	986
	=	786
	01	886
/TKAEMLESVL	=	686

<u>a</u>			Table XIII B Mage 3 BS8 Supermotif Peptides	<u>I B</u> notif Peptides	
107 38 38 48 68 68 68 68 68 68 68 68 68 68 68 68 68	107 107 3.8 6.8 6.8 15.4 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17.9	Sequence	Position	No. of Amino Acids	SEQ ID NO.
107 28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	107 108 88 154 154 154 154 157 179 179 179 179 179 179 179 17				
187 188 188 199 199 198 198 198 198	38 68 68 68 154 179 179 179 178 178 178 178 178 178 178 178	AALSRKVAEL	107	01	066
3.8 5.8 5.15 5.17 5.	3.8 6.8 6.8 6.8 1.54 1.79	AALSRKVAELV	101		166
3.8 6.8 6.8 6.8 1.54	3.8 6.8 6.8 1.54 1.79 1.7	AASSSTL	300	× ×	992
6.6 6.8 6.8 15.4 15.4 17.9 17.	6.8 6.8 6.8 1.54 1.79 1.7	AASSSTLV	388	6	993
68 68 154 154 154 154 155 157 157 158 158 158 158 158 158 158 158	6.8 154 179 179 179 179 179 179 179 179 179 179	AASSSTLVEV	38	Ξ	994
154 154 154 154 154 154 154 154	68 154 179 179 179 179 178 178 178 179 179 179 179 179 179 179 179 179 179	ASSLPTTM	89	8	968
154 154 154 159 199 199 179 179 179 179 179 179 179 17	154 154 179 179 179 179 179 179 179 179 179 179	ASSLPTTMNY	89	01	966
154 154 159 189 199 179 179 179 179 179 179 179 179 17	154 179 39 39 37 215 215 226 280 280 280 280 283 283 283 283 283 283 283 283 283 283	ASSSLQLV	154	80	166
154 179 179 179 179 179 179 179 179 179 179	154 39 39 179 179 179 226 280 280 280 280 283 263 263 263 299 299 299 299 299 299 299 299 299	ASSSLQLVF	154	6	866
39 39 317 318 319 320 3215 3216 3217 3217 3217 3217 3318 3318 3318 3318 3318 3318 3318 33	39 179 179 226 236 236 37 37 37 37 37 38 280 280 280 67 67 67 67 67 67 67 67 67 67 67 67 67	<b>ASSSLQLVFG</b> I	154	=	666
39 179 179 179 179 179 179 179 179 179 17	39 179 179 215 236 236 236 236 37 37 37 17 102 280 280 280 280 280 280 280 280 280 2	\SSSSTLV	39	∞	1000
215 215 216 226 236 236 237 337 337 337 337 337 337 337	179 179 215 236 236 236 280 280 280 280 280 283 263 263 263 263 263 263 263 263 263 26	ASSSTI.VEV	39	01	1001
215 226 236 236 237 37 37 37 37 37 37 37 37 37	179 215 236 236 236 280 17 17 181 181 181 187 283 263 263 263 263 263 263 263 263 263 26	TCLGLSY	179	'. ∝	1000
215 215 236 236 236 236 237 37 17 17 17 18 19 19 19 19 19 19 19 19 19 19	215 236 236 236 237 37 37 102 280 280 280 283 263 263 263 263 263 263 263 263 273 289 299 299 299 299 299 132	TOTAL	021	-	1003
236 236 236 236 237 37 17 17 17 18 280 280 280 88 88 88 88 88 88 88 88 88 88 88 88 8	236 236 236 236 280 280 280 280 151 151 151 151 151 151 151 151 151 15	A DEEV IV	310	<u> </u>	1004
236 236 236 37 17 17 18 18 18 18 18 18 18 18 18 19 19 19 19 19 19 19 19 19 19	23.6 23.6 23.6 3.7 3.7 1.7 1.8 1.8 1.8 1.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2	A BEGY WINE	212	o <u>:</u>	500
236 237 37 17 102 288 288 288 151 151 151 151 151 151 151 1	236 236 37 37 17 102 280 280 280 280 151 151 151 151 151 137 137 137 132 132 198	ALECNIWEEL	235	_ 9	5001
2.50 3.7 3.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1	2.56 3.7 3.7 1.7 1.02 2.80 2.80 2.80 1.51 1.51 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 1.3 2.29 2.29 2.29 2.29 2.29 1.32 1.32 1.32	SILGOPKKL	736	2 :	9001
37 37 117 118 128 280 280 280 178 178 178 188 188 181 181 181	37 37 102 280 280 151 151 151 151 151 151 151 15	SILGOPKKLL	236	= •	2001
177 10 177 177 10 188 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3.7 1.7 1.7 1.8 2.80 2.80 2.80 2.80 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	AASSSIL	3/	<b>5</b> :	8001
17 102 280 280 280 178 181 181 181 181 182 283 88 193 193 193 193 193 193 193 193	17 102 280 280 178 151 151 151 67 67 67 67 67 137 299 299 299 299 132 132 198	AASSSTLV	37	<u>o</u>	6001
178 88 88 88 88 88 88 88 88 88 88 88 88 8	17 102 280 280 178 151 151 151 263 263 263 263 263 299 299 299 299 299 132 132 132	ARGEALGL	17	6	0101
280 280 280 280 280 280 280 280 280 280	102 280 280 178 151 151 67 67 67 67 137 283 299 299 299 299 198 198	ARGEALGLV	17	01	1011
280 280 178 178 178 151 151 151 151 263 263 263 263 263 293 299 299 299 299 299 299 299 299 29	280 178 151 151 151 67 67 67 263 263 263 263 263 299 299 299 299 132 132 132	SEFQAAL	102	∞	1012
280 178 151 151 151 167 67 67 67 67 67 67 10 11 13 13 13 13 13 13 13 13 13	280 178 151 151 151 67 67 67 263 263 263 263 263 263 299 299 299 299 299 299 132 132 198	ISYVKVL	280	∞ :	1013
151 151 151 151 151 151 160 263 263 263 263 263 17 137 137 137 137 137 137 137	1.18 151 151 151 67 67 67 263 263 263 263 263 27 137 137 132 198 198	ISYVKVLHHM	280	= •	1014
151 151 151 151 151 151 152 263 263 263 263 170 171 171 172 173 173 174 175 176 176 176 177 177 178 179 170 170 170 170 170 170 170 170	151 151 67 67 67 263 263 263 137 137 137 132 132 198 198	AICLGLSY	∞. 	<b>~</b> •	5101
151 151 67 67 67 67 67 67 67 67 67 60 70 70 70 70 70 70 70 70 70 7	151 67 67 67 263 263 263 137 137 137 132 132 198 198	SKASSSL 5% 1881 01	<u> </u>	∞ ;	1016
151 67 67 67 263 263 263 137 137 137 137 13 132 132 133 134 148 158	67 67 67 263 263 263 137 137 137 299 299 299 299 132 132 198	SKASSSLQL	151	01 :	2101
67 263 263 263 10 137 137 137 137 10 10 10 10 10 10 10 10 10 10	67 263 263 263 263 137 137 137 299 299 299 299 299 132 132 198	SKASSSLQLV	151	= ‹	8101
263 263 263 263 137 137 137 137 13 299 299 10 10 10 10 10 10 10 10 10 10 10 10 10	6 / 263 263 263 263 263 263 263 263 263 263	ASSLPTIM	/0	<b>5</b> ;	6101
263 W 263 W 263 H 137 H 137 H 10 299 299 100 132 132 133 134 135 136 137 137 138 138 138	263 263 263 137 137 137 132 299 299 299 198 198	ASSLPTIMNY	/9	_ •	0201
M 263 10 F 137 9 9	263 763 137 137 137 137 139 132 138 198 198	SUPACYEF	263	6	1021
F	F F 137 137 137 137 299 299 299 299 198 198	SDPACYEFL	263	01:	1022
HF 137 10 137 10 299 9 299 10 299 10 132 8 132 8 198 8	FF 137 137 137 299 299 299 299 132 132 198 198	SDPACYEFLW	263	Ξ	1023
FF 137 10 137 11 293 9 9 299 9 10 299 10 132 8 132 8 198 9	FF 137 293 299 299 299 100 132 132 198 198	SVVGNWQY	137	6	1024
137 11 1 1 299 9 9 1 1 1 1 1 1 1 1 1 1 1 1	137 293 299 299 1. 299 132 132 198 198	SVVGNWQYF	137	<u>0</u>	1025
293 293 9 9 299 299 10 299 11 11 11 11 11 11 11 11 11 11 11 11 1	293 299 299 132 132 198 198	SVVGNWQYFF	137	=	1026
. 299 9 299 10 132 8 132 9 198 9	299 299 299 132 132 198 198	SGGPHISY	293	6	1027
T. 299 10 132 8 132 8 198 8	299 299 132 132 198 198	SYPPLHEW	299	6	1028
299 III 132 8 132 9 198 8	299 132 132 198 198 198	SYPPLHEWV	667	01	1029
132 8 132 9 198 8 198 9	132 132 198 198	SYPPLHEWVL	299	= •	1030
132 9	132 198 198	CAEMLGSV	132	∞ :	1031
861	198 198 Al	CAEMLGSVV	132	6	1032
5 86	198 A1 198	AGLLIIV	861	<b>&gt;</b>	1033
		AGLLIIVL	86.	ο:	1034

		S	
	tif Peptides	No. of	Amino Acide
Table XIII B	Mage 3 B58 Supermot	Position	

A × × × × × × × × × × × × × × × × × × ×	ition No. of Amino Acids	SEQ ID NO.
KASSSLQL KASSSLQL KASSSLQLV KASSSLQLV KASSSLQLV KASSSLQLVF LSRKVAELV LSRKVAELV LIQHFVQENY LTQHFVQENY LTQHFVQEN		
. #\Z # ii	8	1036
#\Z # B >\\\	o	1037
# \	01	1038
#\Z # 13 \XX	8	1039
#\_C	6	1040
, 신 내 등 > %을 구 , 그 > <b>&gt;</b> > > > > > > > > > > > > > > > > >	=	1041
로 내 당 중절 및 기 구 공동	01	1042
ר אָץ	=	1043
™ 19 % 19 19 19 19 19 19 19 19 19 19 19 19 19	∞ :	1044
19 S.W.1 7 S.W.		1045
ii	∞	1046
13	on 00	1047
۲ کر از	o ==	1049
γ. Υ	6	1050
. Υ ΣΑΥ ΑΥ ΑΥ Α	\ œ	1051
. Υ Ε Ε Ε Ε Ε Ε Ε Ε Ε Ε Ε Ε Ε Ε Ε Ε Ε Ε	» <b>6</b>	1052
31. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	=	1053
μ γ γ γ × × × × × × × × × × × × × × × ×	=	1054
녹 , 고 > X > X >	=	1055
÷, ¬, >, ×, >, ×, >, ×, >, ×, >, ×, >, ×, ×, ×, ×, ×, ×, ×, ×, ×, ×, ×, ×, ×,	6	1056
, J > 5 5 5	<u> </u>	1057
, J > \(\frac{1}{2}\)	<b>5</b>	8501
	<u> </u>	6501
~ × × × ×	æ <u>5</u>	0001
	0	1001
	· =	1063
	Ξ ∝	1064
	0.0	1065
	2.6	1066
	10	1067
	. ∞	1068
	=	1069
	10	1070
	=	101
	∞ (	1072
	∞ (	1073
VAELVHFLL	Σ <del>.</del>	10/4
VAELVHFLLL 113 VTV AFMI GOV	2 9	1076
VICACIMICOS V		1077

Table XIV A	Mage 2 B62 Supermotif Peptides
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Table XIV A Mage 2 B62 Supermotif Peptides	Position No. of SEQ ID NO. Amino Acids		121 10 1125	= :	0	8711 0 0 851	158	2.0	8	1 01	_ `	5	~ ~	, 6	01	6	1	01		==	01	= '	∞ ∘		36	10	= :			 	6	0 -	6011 01 057 44 10 11 64	. 6	∞ ∘	139 6 1168	•
Wa	Sequence				LEMODI VOENY 246			>			>	LVHFLLKY I VOENVI EV							NOVIMPRICEDI 193 PICHI VII V	-		ESV	OLVEGIEV 159	P.				WEDDI FORE	ACY	W,		SVERNCQUFF TIKIGGEPHI	>		VLHHTLKI 286		

Table XIV A	Mage 2. B62. Supermotif. Peptides

Sequence	Position	No. of Amino Acids	SEQ ID NO.
MPKTGLLI	261	6	1170
APKTGLLII	195	10	1171
MPKTGLLIIV	195	=	1172
PGSDPACY	261	6	1173
PGSDPACYEF	261	=	1174
ISHLYI	170	8	1175
ISHLYILV	170	10	1176
ENYLEY	251	∞	1177
VQENYLEYRQV	251	=	1178
EVVPISHLY	991	=	1179
PISHLY	691	<b>∞</b>	1180
PISHLYI	169	6	1181
PISHLYILV	691	=	1182
VTCLGLSY	176	=	1183
QLVFGI	157	8	1184
OLVFGIEV	157	01	1185
QLVFGIEVV	157	=	1186
KVLHHTLKI	283	=	1187

Amino Acids  10 8 9 9 8 9 9 9 8 9 9 9 9 9 9 9 9 9 9 9		Position	II repudes No of	SEO ID NO
	ı	nonio i	Amino Acids	SEQ ID NO.
· ≈ □ ○ ∞ ○ □ □ ∞ ∞ ○ □ □ □ ○ □ ∞ ○ ○ □ □ □ □		801	01	1188
		277	∞ :	1189
· × 6 □ = × × □ □ × 6 □ = □ 6 × 6 6 □ = □ = □ = 6 □ = × □ × 6 × 6 □ = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 =		277	20	261
. O C I 8 8 C C C S O O C C C C O S O O C C C C C C		170	~ oc	1611
Q = ∞ ∞ Q = ∞ 6 Q = 0 6 ∞ 6 6 Q ≈ 6 6 Q = 0 = 0 = 1 5 6 ∞ 6 ∞ ∞ 6 ∞ 6 Q = 0 = 1 5 6 0 = 1 5 0 0 = 1 5 0 0 = 1 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		170	6	1193
: ∞ ∞ 2 2 ∞ o 2 : 2 o ∞ o o 2 ∞ o o 2 : 2 : 1 : 6 2 : ∞ 2 ∞ : ∞ ∞ o ∞ ∞ o 2 · · · · · · · · · · · · · · · · · ·		241	10	1194
8822862566628662 <u>25556255688869</u> 8886 <u>9</u> 886886 <u>9</u> 8868869		241	=	1195
8		165	8	1196
0 0 8 6 0 1 0 6 8 6 6 0 8 6 6 0 0 1 0 1 1 1 6 0 1 8 0 8 1 8 8 6 8 8 8 6 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		224	∞	1197
9 × 6 9 = 9 6 6 6 9 × 6 6 9 = 1 1 1 1 6 9 = 1 8 2 8 = 8 8 6 8 8 8 6 9		115	10	1198
8 6 9 11 9 6 8 6 6 9 8 6 6 9 11 11 11 6 9 11 18 8 8 6 8 8 8 6 9 11 11 11 11 11 11 11 11 11 11 11 11 1		134	01	1199
601068662866011011662828668866		128	∞	1200
· O I O O O O O O O O O O O O O O O O O		168	. 6	1001
		168	. =	1041
		801	2 -	7071
2		100	= :	1203
5 & 6 6 9 & 6 6 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		677	2 ,	1204
× 6 6 2 × 6 6 2 = 2 = 2 = 2 = 6 2 = 8 2 × = 8 × 6 × 8 × 6 2		7/1	6	1205
		86	∞	1206
		105	6	1207
○ ≈ 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		250	6	1208
& 6 6 0 0 1 0 1 1 6 0 1 8 2 8 1 8 8 6 8 8 6 0		163	01	1209
		880	œ ·	1210
· • • • • • • • • • • • • • • • • • • •		880	6	1211
		700	δ.	1212
0 = 0 = = 6		2007	01	1213
		274	0.	1214
Q = = 6		274	=	1215
		298	01	1216
<u>.</u> 6 2 <del></del> ∞ 2 ∞ <del></del> ∞ ∞ ∞ ∞ ∞ ∞ 6 2		298	=	1217
o Ω = ∞ Ω ∞ = ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞		289	=	1218
O = 8		195	6	1219
		195	10	1220
& \( \text{\tinx{\text{\tin}\text{\tetx{\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\tint{\text{\text{\text{\text{\text{\ti}\tint{\text{\text{\text{\text{\text{\texi}\tilit{\text{\texi}\tilitt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\texit{\t		195	=	1221
Q ∞ = ∞ ∞ ∞ ∞ ∞ 0 Q		292	∵ ∞	1222
. ∞ = ∞ ∞ o ∞ ∞ ∞ o ⊆		292	01	1223
- <u>-</u> & & 6 & & & 6 <u>-</u>		220	; ∞	1224
: ∞ ∞ o ∞ ∞ o <u>o</u>		220	, =	3001
o ∞ ∞ ∞ ∞ ⊙ ⊙		244	. ∝	1325
o o o o o o o o o o o o o o o o o o o		511	» œ	222
√∞∞∞∞⊙ <u>⊙</u>		785	o	8001
o & & 6 Q		202	\ oc	1228
8 8 6 01		68-	> 00	1230
6		201	» œ	1231
01		201	6	2521
		121	01	1521

Table XIV B	Mage 3 B62 Supermotif Peptides	

	Table XIV B Mage 3 B62 Supermotif Peptides	<u>B</u> vtif Reptides	
Sequence	Position	No. of Amino Acids	SEQ ID NO.
LLKYRAREPV	120	=	1234
LIQHFVQENY	245	=	1235
MEVDPIGHLY	991	=	1236
PITMNYPLW	71	01	1237
QLVFGIELM	158	01	1238
VETSYVKV	278	6	1239
VEVTLGEV	45	6	1240
VFGIELM	091	∞	1241
VFGIELMEV	091	01	1242
VHFLLLKY	116	6	1243
MLGSVVGNW	135	. 0	0.121 4401
MLGSVVGNWOY	135	`=	1245
MPKAGLLI	961	. ∝	1245
MPKAGLLII	961	ာဇာ	1240
MPKAGLLIIV	961	, CI	747
MVKISGGPHI	290	2 5	1240
NOEEEGPSTF	68	2 2	0501
NOIMPKAGLLI	661	2 =	0521
PIGHLYIF	121	: ∝	1257
OGASSLPTTM	59	> <del>-</del>	1253
VTKAEMLGSV	129	=	125
JIMPKAGLLI	194	. 01	5561
<b>Ö</b> İMPKAGLLII	161	2 =	9501
QLVFGIELM	159	6	1257
QLVFGIELMEV	159	-11	1258
QVPGSDPACY	260	01	1259
RQVPGSDPACY	. 259	=	1260
SLPTTMNY	70.	∞	1261
SLPTTMNYPLW	70	=	1262
SLQLVFGI	157	∞	. 1263
SLQLVFGIELM	157	=	1264
SVVGNWQY	138	∞	1265
SVVGNWQYF	138	6	1266
SVVGNWQYFF	138	01	1267
LVEVILGEV	44	10	1268
MNYPLWSQSY	74	=	1269
CHFVCENY	247	6	1270
VLHHMVKI VBCSDBACV	286	∞ (	1271
V FGSUFACT	197	Σ :	1272
JOENVI FV	197	_ 0	1273
VOENYLEYROV	251	° -	1775
/VGNWQYF	139	- ∞	1276
/VGNWQYFF	139	6	1277
VVGNWQYFFPV	139	=	1278
<b>WQYFFPVI</b>	143	88	1279

	Table XIV B	/.B	
	Mage 3 B62 Supermotif	notif Peptides	
Sequence	Position	No. of Amino Acids	SEQ ID NO.
VQYFFPVIF TIFATCL.GLSY PLWSQSY PPLHEWV VKVLHHM VKVLHHMV	143 176 77 301 283 283 283	o = 8 8 8 0 =	1280 1281 1282 1283 1284 1285

	SEQ ID NO.	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299
ıta	A*0101	0.1700	0.0047	-0.0021	0.0023	0.0450	1.5000	-0.0021	-0.0006	-0.0021	0.0430	-0.0021		0.2000
Table XV A 1age 2 A01 Motif Peptides with Binding Data	No. of Amino Acids	10	=	œ	∞	10	6	8	6	8	6	∞	∞	=
Mag	Position	89	29	294	150	246	247	262	275	70	69	251	179	991

Sequence	Mage 3 A0	Table XV B Mage 3 A01 Motif Peptides with Binding Data	4*0101	Cr Ci
		Amino Acids		SEQ ID NO.
ASSLPTTMNY	89	01	2.6000	1300
ATCLGLSY	179	8	0.1100	1301
EVDPIGHLY	168	6	18.0000	1302
GASSLPTIMNY	29	=	0.0390	1303
GSV VGNWQY	137	6	0.0500	1304
IFAICLGLSY	177	01	0.0020	1305
ISCOPHISY VICOOPHISY	293	6	0.0370	1306
NISOURHIS I	767	10	0.0011	1307
I MENDEROLII V	136	10	0.0020	1308
I TOHEVOENS	96		7.5000	1309
PGSDPACV	240	01	0.2600	1310
PRALVETSV	202	∞ ·	-0.0021	1311
SCI PTIMAN	617	5	0.0011	1312
TANVEL WEGGE	60	6	0.0550	1313
VOENZI EV	77	=	0.0830	1314
V CENTLE I	167	8	-0.0021	1315

	ding Data
Table XVI A	Mage 2 A03 Motif Peptides with Bind

		<u>Table XVI A</u> Mage 2 A03 Motif Peptides with Binding Data	ta	
Sequence	Position	No. of Amino Acids	A*0301	SEQ ID NO.
EVTLGEVPA	47	6	0.0003	1362
EVTLGEVPAA	47	10	0.0003	1363
EVVEVVPISH	165	01	0.0002	1364
EVVPISHLY	89.	6	0.0002	1365
FFFVFSK	46	× (	00000	1366
FFFVIFSKA	140	<b>.</b>	0.0003	136/
FILLKYRAR	911	∞ □		1369
FSTTINYTUWR	12	11	0110	1370
GASSFSTTINY	67			1371
GDCAPEEK	213	∵ ∞		1372
GDNQVMPK	191	8		1373
GGEPHISY	294	88		1374
GLEARGEA	15	∞		1375
GLLGDNQVMPK	188	=	0.0780	1376
GLLINLA	200	∞		1377
GLLIIVLAIIA	200			1378
GLVGAQAPA	24	6	0.0003	1379
GSDPACYEF	263	6		1380
GSSNQEEEGPR	98	_	-0.0002	1381
HCKPEEGLEA	6 (	01	0.0003	1382
HCKPEEGLEAR	δ:			1383
HFLLLKYK		∞ (		1384
HFLLLKYKA	<u>**</u>	<b>6</b>	0.0016	1385
HFLLLKYKAK	8 - C	01	0.0014	1386
HISYPPLH	298	∞ !		1387
HISYPPLHEK	298	. 01	0.0074	1388
HISYPPLHERA	298	= 1		1389
HSPQGASSF	93	6	0.0002	1390
HILKIGGEPH	587	01		1881
IAIEGUCA	209	∞ .		1392
IFSKASEY	081	∞		1393
IGGEPHISY	293	6		1394
IIAIEGDCA	208	6		1395
IIVLAIIA	203	∞		1396
ILVTCLGLSY	177	01	0.0036	1397
ISRKMVELVH	601	01	0.0002	1398
ISRKMVELVHF	601	=	0770	1399
ISTFLHEK	667	۷ ;	0.0340	1400
ISYPLHEKA	667	<u>0</u> :	60000	1401
KAEMLESVLK	152	2 :	0.0002	1402
NASE I LOLVE	200	2 9	0.0002	1403
KINDEL HIST	292	2 •		1404
KITCH IIVI A	71.7	o <u>-</u>		1406
KVLHHTLK	285	2 ∝	0.0053	1407
	,	٥	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

Seguence         Position         Antifo Acids         Avio of Antifo Acids         Avi	Position  206 190 213 233 233 233 233 233 233 233 233 233		SEQ ID NO. 1408 1409 1410 1411 1411 1415 1415 1416 1419 1420 1420 1421 1423 1423 1424
206 213 213 214 215 215 215 217 217 217 217 217 217 217 217 217 217	206 190 23 23 23 203 201 189 201 189 201 116 116 116 116 117 118 119 119 119 119 119 119 119		1408 1409 1410 1411 1413 1414 1415 1418 1419 1420 1420 1421 1420 1421 1420 1421 1420 1421 1420 1421 1421
190 0002 238 8 8 0 00002 238 8 8 8 0 00003 239 11 10 00003 245 11 10 00003 25 245 11 10 00003 25 25 11 10 00004 25 25 11 10 00004 25 25 11 10 00005 25 25 25 25 25 25 25 25 25 25 25 25 25 2	7 23 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		1409 1410 1411 1412 1414 1416 1418 1419 1420 1421 1421 1421 1422 1423 1424 1424 1425
2.25 2.27 2.28 2.29 2.29 2.29 2.20 2.20 2.20 2.20 2.20	2.23 2.78 2.78 2.78 2.78 2.70 2.70 2.70 2.70 2.70 2.70 2.70 2.70		1410 1411 1413 1414 1416 1418 1419 1420 1421 1421 1422 1424 1424 1424
278 8 8 00004 278 11 10 00044 278 202	278 278 202 189 246 246 250 250 250 250 250 250 250 250 250 250		1411 1413 1415 1416 1416 1418 1420 1421 1422 1423 1424 1425
2078 2078 2079 208 208 209 2010 2010 2010 2020 2020 2020 2020	278 189 201 246 246 250 250 116 116 1178 250 250 250 250 250 250 250 250 250 250		1413 1414 1415 1416 1417 1419 1420 1421 1422 1423 1424 1426
202	202 189 201 245 255 250 250 250 250 250 251 331 331 444 444		1414 1415 1417 1417 1419 1420 1421 1421 1422 1423 1424 1424 1425
189	189 201 201 225 245 256 250 250 250 250 250 250 250 250 250 250		1415 1417 1418 1419 1420 1421 1421 1423 1423 1423 1424 1425
201 110 0.0009 245 111 0.0009 255 110 0.0004 25 8 8 8 0.0009 25 8 8 8 0.0009 25 0 9 9 0.0000 25 0 9 9 0.0000 27 178 9 9 0.0000 27 27 8 8 10 0.0002 28 26 110 0.0003 29 9 0.0003 20 2 8 8 0.0003 20 2 8 8 0.0003 20 2 8 8 0.0003 20 30 8 8 0.0003 20 2 8 8 0.0003 20 2 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 0.0003 20 30 8 8 8 0.0003 20 30 8 8 8 0.0003 20 30 8 8 8 8 0.0003 20 30 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9	201 120 245 245 246 256 257 250 250 250 260 261 262 262 263 264 444 144		1416 1417 1418 1419 1420 1421 1423 1423 1424 1425
120     8     -0.0009       245     11     -0.0004       25     10     -0.0004       25     11     -0.0004       25     8     0.0220       116     8     0.0220       116     11     0.020       250     9     0.002       27     9     0.000       27     11     0.000       27     11     0.000       27     11     0.000       28     10     0.000       29     0.000     0.000       20     10     0.000       20     10     0.000       20     10     0.000       20     10     0.000       20     10     0.000       20     10     0.000       20     10     0.000       20     10     0.000       20     10     0.000       20     10     0.000       21     10     0.000       22     10     0.000       23     11     0.000       24     11     0.000       24     11     0.000       24     11     0.000       25     10     0.00	245 246 252 250 250 250 250 262 262 262 263 303 303 264 444 444		1417 1418 1419 1420 1421 1423 1423 1424 1424 1426
245       11         224       10         252       45         116       10         25       8         116       8         116       9         117       9         250       9         250       9         250       9         250       10         250       10         250       10         27       8         26       10         27       8         28       0.0003         29       0.0003         20       10         20       10         20       10         20       10         20       10         20       10         20       10         20       10         20       10         20       10         20       10         20       10         20       10         20       10         20       10         20       10         20       10         20       10 <td>245 225 226 45 116 116 116 117 250 250 250 250 250 250 250 250 250 250</td> <td></td> <td>1418 1419 1420 1421 1423 1424 1424 1424 1426</td>	245 225 226 45 116 116 116 117 250 250 250 250 250 250 250 250 250 250		1418 1419 1420 1421 1423 1424 1424 1424 1426
246   10   10   10   10   10   10   10   1	246 4 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		1419 1420 1421 1422 1423 1424 1424 1426
255       11       -0.00004         25       8       0.0290         116       9       0.0430         116       10       0.0260         250       9       0.0027         250       9       0.0002         250       9       0.0002         27       9       0.0002         28       11       0.0002         29       11       0.0002         20       11       0.0003         20       11       0.0003         20       20       0.0003         20       8       0.0003         20       8       0.0003         20       8       0.0003         20       8       0.0003         20       11       0.0003         20       8       0.0003         20       8       0.0003         20       8       0.0003         20       8       0.0003         20       8       0.0003         20       8       0.0003         21       11       0.0003         22       11       0.0003         23       0.0	255 256 116 116 1178 257 257 257 303 303 44 44 44 45 55 66 66 66 67 67 67 67 67 67 67 67 67 67		1420 1421 1422 1423 1424 1424 1425
45       45         116       8       0.0290         116       9       0.0240         116       10       0.0260         1178       9       0.0027         220       10       0.0027         230       10       0.0027         27       8       0.0002         27       11       0.0002         28       10       0.0003         29       10       0.0003         99       10       0.0003         99       10       0.0003         20       8       0.0003         20       8       0.0003         21       8       0.0003         22       8       0.0003         23       8       0.0003         24       8       0.0003         24       8       0.0002         248       8       0.0002         248       8       0.0002         248       8       0.0002         248       8       0.0002         248       8       0.0002         25       11       0.0003         26       0.0003 <td< td=""><td>2.5 116 116 116 1178 227 227 227 227 227 227 227 227 227 2</td><td></td><td>  42     422   423   424   424   425</td></td<>	2.5 116 116 116 1178 227 227 227 227 227 227 227 227 227 2		42     422   423   424   424   425
116   8   8   0.0230     116   10   10   0.0240     116   110   0.0240     1250   10   0.0027     1250   10   0.0027     127   113   11   0.0002     127   127   11   0.0002     127   127   10   0.0003     256   11   0.0003     257   11   0.0003     258   8   0.0003     259   10   0.0003     250   10   0.0003     251   252   25     252   253   254     253   254   254     254   254   254     255   255   255     255   255   255     255   255   255     255   255   255     255   255   255     255   255   255     255   255   255     255   255   255     255   255   255     255   255   255     255   255   255     255   255   255     255     255   255     255   255     255   255     255   255     255	25 116 116 116 1178 250 250 260 261 262 263 263 303 303 444 444		1422 1423 1424 1425 1425
16   8   0.04390     16   16   9   0.04390     16   178   9   0.0027     178   9   9   0.0002     178   9   9   0.0002     178   9   9   0.0002     179   9   10   0.0003     18   0.0003     19   9   0.0003     10   10   0.0003     10   10   0.0003     10   0.0003     11   0.0003     12   13   11     14   16   10     15   14   16     16   17   18     17   18     18   10     18   10     19   10     10   10     11   11     12   14   15     14   15     15   16     16   17     17   18     18   10     18   10     19   10     10   10     10   10     11   11	116 116 1250 250 277 277 286 331 303 303 444 144		1423 1424 1425 1425
116   116   9   0.0430     1250   250   9   0.0026     117   178   9   0.0002     178   9   9   0.0002     179   9   9   0.0002     170   113   11   0.0009     171   172   173   174     171   172   173   174     172   173   174     173   174   174     174   174   174     174   174   174     175   175   175     175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175   175     175   175     175   175	116 116 250 250 250 27 27 26 26 26 26 26 26 26 26 26 27 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20		1424 1425 1426
116	116 250 250 250 27 27 27 26 26 26 27 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20		1425 1426
250 250 250 250 250 250 250 250 250 260 27 27 27 27 28 266 27 28 266 27 28 267 27 28 268 27 28 268 27 28 268 27 28 28 29 20003	250 250 250 27 178 27 113 113 31 26 26 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20		1426
250 250 178 178 178 277 111 113 111 1142 119 264 278 265 279 270 270 270 270 270 270 270 270 270 270	250 250 277 277 266 31 31 262 262 262 27 303 303 444 144	= .	
150       178       97       178       97       178       97       113       1142       113       1142       1143       11       264       11       11       265       11       27       10       28       20       20       10       10       10       11       12       13       14       16       17       10       10       10       11       12       13       14       14       15       16	250 97 178 97 113 142 265 262 262 262 262 263 303 303 148 144	5	(427
178     9       97     9       178     9       227     8       113     11       142     10       143     11       264     11       31     9       99     10       99     10       262     8       263     10       27     8       8     0.0003       10     0.0003       148     10       144     10       144     11       144     11       144     11       144     11       144     11       144     11	178 87 227 87 227 84 266 89 99 99 99 99 99 99 99 99 99 99 99 99 9	10 0.0027	1428
K 113 11 1 1 0.0002  K 113	7, 7, 7, 113 113 114 125 131 131 130 130 144 144	6000	1429
227 8 113 1142 119 119 0.0000 0.0002 54 110 0.0002 10 0.0003 110 0.0003 110 0.0003 110 0.0003 110 0.0003 110 0.0003 110 0.0003 111 1144 1144 1144 1144 1144 1144 1	227, 227, 142 84 85 99 99 262 262 262 263 303 303 4 144		1431
K 113 11 0 0.0000  S4 10 10 0.0000  S5 10 10 0.0000  S5 10 10 0.0000  S5 10 10 0.0003  S5 262 8 8 0.00003  S5 2 10 10 0.0003  S5 303 8 8 0.00009  S5 9 10 0.00003  S6 10 0.00003  S7 29 11 8 8 0.00000  S7 248 8 8	K 112 84 84 85 89 99 99 262 262 2 2 303 303 144 144		1431
142   16   17   17   17   17   17   17   17	14.5 14.5		1432
8     266       31     9       99     9       99     9       262     8       262     8       263     8       264     8       27     10       28     0.0003       303     8       148     10       144     11       144     11       248     8       11     0.0002	84 266 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1434
R     266       31     9       99     9       99     9       99     0.0003       262     8       262     8       27     10       28     0.0003       303     8       10     0.0009       59     10       144     10       144     11       144     11       144     11       144     11       144     11       144     11       148     8	266 31 99 99 262 262 2 2 2 303 303 148 144 144		1435
31 9 9 0.0003 99 9 10 0.0003 262 8 8 0.0003 2 2 10 8 0.0003 303 8 8 0.0009 59 10 0.0009 59 11 8 0.0009 7 29 8 11 0.0002	31 99 99 262 262 2 2 303 303 148 144 144		1436
99 9 9 0,0003 262 8 8 0,0003 262 8 8 0,0003 2 2 10 8 0,0003 303 8 8 0,0009 59 110 0,0160 144 164 16	99 262 262 2 2 2 3 303 303 148 144 144		1437
262 8 8 0.0003 262 10 0.0003 2 2 8 8 0.00003 2 303 8 8 0.00009 59 10 0.0009 59 10 0.0160 A 29 11 8 8 0.00002 H44 14 10 11 0.0002	99 262 262 2 303 303 39 148 144		1438
262 8 262 10 2 2 8 8 0,0003 303 8 8 -0,0009 59 10 0,0160 148 11 0 0,0160 144 10 11 0,0002	262 262 2 2 303 303 59 148 144		1439
262 10 0.0003 2 2 8 0.0003 2 2 10 0.0003 303 8 8 -0.0009 59 10 0.0160 0.0160 144 144 144 144 144 144 144 144 144 14	262 2 2 303 59 148 144 144	8	1440
2 8 0,0003 303 8 8 -0,0009 59 10 0,0160 148 110 0,0160 144 15 10 144 16 11 144 248 8 8	2 2 303 59 148 144 144	10	1441
2 10 0,0003 303 8 -0,0009 59 10 0,0160 144 14 16 10 0,0160 144 14 11 11	2 303 59 148 144 144		1442
303 8 -0.0009 59 10 0.0160 A 29 11 144 8 144 11 144 11 144 11 144 11 144 11 145 1248 8 11	303 59 148 A 29 144 144		1443
59 10 0.0160 148 10 0.0160 29 11 144 8 144 11 1 248 8 1 248 11	59 148 A 29 144 144		1444
A 29 10 0.0160 144 8 8 0.0002 1 144 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	148 A 29 144 144		1445
A 29 11 144 8 144 10 100002 1 144 11 1 248 8	A 29 144 144		1446
144 8 0.0002 144 10 0.0002 1 144 11 248 8 8	144 144		1447
144 10 0.0002 1 144 11 248 8 3 248 1	144	8	1448
144 II 248 8 3 248 II			1449
248 8 248 11	_	=	1450
. 248 11		8	1451
		=	1452

-		Mage 4 Avo Moth reprines with binding Data	Data	
Sequence	Position	No. of Amino Acids	A*0301	SEQ ID NO.
OVPGSDPACY	260	01		1454
RALIETSY	276	' ∞		1455
RALIETSYVK	276	10	0.0200	1456
RAREPVTK	125	? ∞	6000:0-	1457
RAREPVTKA	125	. 0		1458
RGEALGLVGA	61	01	0.0003	1459
RMFPDLESEF	96	0.	00000	1460
SDPACYEF	264	2 ∞		1461
SESTTINY	02	∞.∞		1467
SMLEVFEGR	326	» a	0.0020	1463
SSESTTINY	69	` 0		1464
CONDEFECTOR	87	` -	20000	1466
STINATI WR	27	2.5	0.0002	7771
CVEAUDOV	2/	2 6	4100.0	004.
SVI ANTAN	138	∞ (	0.1410	1469
SVENINCODE	001	5	0.0002	1468
SVLKNCQDFF	38	01	0.0002	1469
TGLLIIVLA	661	6		1470
TINYTLWR	74	8	0.0140	1471
TLGEVPAA	49	8		1472
TLKIGGEPH	290	6		1473
TSYVKVLH	281	88		1474
TSYVKVLHH	281	6	0.5900	1475
TTINYTLWR	73	6	0.0890	1476
VFEGREDSVF	230	10		1477
VFEGREDSVFA	230			1478
VIFSKASEY	149	6	0.0810	1479
VLRNCQDF	139	~		1480
VLRNCODFF	139	. 0	0.0002	1481
VTCLGLSY	179	. 00		1482
VTLGEVPA	48	· «		1483
VTLGEVPAA	84	· •	0.0003	1484
VVEVVPISH	991	. •	0.0007	1485
VVEVVPISHLY	166	· =		1486
VVPISHLY	691	- ∞		1487
WGPRALIETSY	273	. ==		1488
YILVTCLGLSY	176	=		1489
VA/VA 111.171 V	,,,,	1		

		A*0301
Table XVI B	Mage 3 A03 Motif Peptides with Binding Data	No. of Amino Acide
		Position

		Table XVI B Mage 3 A03 Motif Peptides with Binding Data	ig Data	
Sequence	Position	No. of Amino Acids	A*0301	SEQ ID NO.
AALSRKVA	107	∞		1491
ACYEFLWGPR	267	01	0.0032	1492
ACYEFLWGPRA	267	=		1493
AGLLIIVLA	199	6	0.0006	1494
AllaREGDCA	202	01		1495
ALGLVGAQA	22	o :	0.0003	1496
ALGLVGAQAPA	27	= =		1497
ALSKNVAELVII	977		02200	1498
ALVEISTVA ASSI PITMNV	89	<b>~</b> ⊆	0.000	1500
ASSI OLVE	154	2 σ	11000	1501
ATCLGLSY	179	· œ		1502
ATEEQEAA	32	, ∞		1503
DLESEFQA	001	8		1504
DLESEFQAA	100	6		1505
DSILGDPK	236	88	-0.0004	1506
DSILGDPKK	236	6	-0.0003	1507
EALGLVGA	21	80		1508
EALGLVGAQA	17	01	0.0003	1509
EDSILGDPK	235	6	0.0003	1510
EDSILGDPKK	235	01	0.0003	1511
EFLWGPKA	0/7	∞ •		1512
EFCAALSK EFOAAISBV	<u> </u>	×	60000	5151
EFOAL SRKVA	20.0	<b>`</b> =	70000	1515
EGDCAPEEK	212	: 6	0.0002	1516
EGLEARGEA	4	6	0.0003	1517
ELMEVDPIGH	165	01	0.0003	1518
ELSVLEVF	224	∞ :		1519
ELSVLEVFEGR	477 115		-0.0009	1531
ELVIII ELEN	CI 1	٧.	0.0046	1261
ELVHFLLLKYR	115	2 =	0.001	1523
ESEFQAALSR	102	: 01	0.0002	1524
ESEFQAALSRK	102	=	0.0002	1525
ETSYVKVLH	280	6		1526
ETSYVKVLHH	280	01	0000	1527
EVDPIGHLY	89.	σ:	0.0002	1528
EVOPICALYIF	208	= 0	0 000	6751
EVILGEVEA EVTI GEVPA	47	y C	0.0003	1531
FATCLGLSY	178	2 ∽	0.0003	1532
FFPVIFSK	146	∞ .		1533
FFPVIFSKA	146	Ο 0	0.0003	1534
FLLKYRAR	611	0 O		1536

		Table XVLB Mage 3 A03 Motif Peptides with Binding Data		
Sequence	Position	No. of Amino Acids	A*0301	SEQ ID NO.
FVQENYLEY	250	6		1537
FVQENYLEYR	250	01	0.0009	1538
GASSLPITMNY	67	= '		1539
GDCAPEEN	101	× 0		1540
GUNCIMERA	5 6	×	0,0003	1541
GDPKKLLTOH	240	0.1	0.0003	1543
GDPKKLLTOHF	240	2 ==		1544
GGPHISYPPLH	295	: ==		1545
GLEARGEA	15	: ∞		1546
GLLGDNQIMPK	188	=	0.1300	1547
GLLIIVLA	200	8		1548
GLLIIVLAIIA	200	=		1549
GLVGAQAPA	24	6	0.0003	1550
GSDPACYEF	263	6		1551
GSVVGNWQY	137	6		1552
GSVVGNWQYF	137	01	0.0020	1553
GSVVGNWQYFF	137	==		1554
HCKPEEGLEA	6	01	0.0003	1555
HCKPEEGLEAR	0	-		1556
HFLLLKYR	118	8		1557
HFLLLKYRA	118	6	0.0016	1558
HFLLLKYRAR	118	10	0.0014	1559
HFVQENYLEY	249	10		1560
HFVQENYLEYR	249	=		1961
HISYPPLH	298	8		1562
HMVKISGGPH	289	01		1563
IAREGDCA	209	∞		1564
IFATCLGLSY	177	01	0.0005	1565
IGHLYIFA	172	80		1566
IIAREGDCA	208	6		1567
IIVLAIIA	203	8		1568
IIVLAIIAR	203	6	6900.0	1269
ISGGPHISY	293	6	0.0003	1570
IVLAIIAR	204	∞ :	0.0053	1571
KAGLLIIVLA	86	10		1572
KASSSLQLVF	53	01	0.0003	1573
KISGGPHISY	292	10		1574
KVAELVHF	112	∞ .		1575
KVLHHMVK	285	∞;	0.0580	1576
LAITAKEUDCA	907	= <		1270
LGDNQIMPKA	061	ъ <u>С</u>	0 0003	1579
LGDPKKLLTQH	239	? =		1580
LGLVGAQA	23	88		1581
LGLVGAQAPA	23	10	0.0003	1582

	a	Table XVI B Mage 3 A03 Motif Peptides with Binding Data		
Sequence	Position	No. of Amino Acids	A*0301 SEQ1	SEQ ID NO.
LGSVVGNWOY	136	10	0 0003	583
LGSVVGNWQYF	136	:=		584
LIIVLAIIA	202	6		585
LIIVLAIIAK	202	01	0.0280	586
LLGUNQIMPK	58 S	0.		587
LLUDINGINITAN LLINI AIIA	20.5		2 4	288
LLIIVLAIIAR	201	2 =	10000	590
LLLKYRAR	120	: ∞		591
LLTQHFVQENY	245	=	-	592
LMEVDPIGH	99]	6	0.0002	593
LMEVDPIGHLY	991	= '		594
LSKKVAELVH	<u>8</u> 9	0:	0.0002	595
LSKN VAELVRF I SVI EVEEGD	935 SCC	_ 9		0,00
LTOHEVOENY	246	2.5	0,000	760
LVETSYVK	278	2 ∝		599
LVETSYVKVLH	278	- =		600
LVEVTLGEVPA	45	=	91	601
LVGAQAPA	. 25	∵∞		602
LVHFLLLK	116	· ∞		603
LVHFLLLKY	91	6	0.0430	604
LVHFLLLKYR	911	01		605
LVHFLLLKYKA	911	== :	9	909
MYVISOOBU	300	_ <		607
PACVEEL WGPR	990	ο <del>-</del>	0.0003	808
PATEEOEA	31	Ξ ∝		610
PATEEÒEAA	31	6		911
PDLESĒFQA	66	. 6	0.0003	612
PDLESEFQAA	66	0.1		613
PDPPQSPQGA	88	01		614
POSUPACI	797	∞ 5	9	615
PICHLYIF	121	⊇ ∞	9	617
PIGHLYIFA	12	o 0	91	, IOI 1018
PLEQRSQH	2	. ∞		619
PLEQRSQHCK	2	01	0.0003	1620
PLHEWVLR	303	∞ ;		1621
PSIFFDLESEF OAAISBKVA	S 32	<u> </u>	91	622
OAPATEGOEA	20 00	<i>و</i> 1	91	624
QAPATEEQEAA	53 53	2=		625
QVPGSDPA	260	∞ (	91	626
CVPGSDPAC Y RAI VETSV	72¢	0	91	779
	24	•	-	870

		<u>Table XVI B</u> Mage 3 A03 Motif Peptides with Binding Data	Data	
Sequence	Position	No. of Amino Acids	A*0301	SEQ ID NO.
RALVETSYVK RAREPVTK	276 125	01 8	0.000.0-	1629
RAREPVTKA	125	6		1631
RGEALGLVGA SDPACYEF	6 5 284	01 «	0.0003	1632
SGGPHISY	294	≎ ∞		1634
SILGDPKK	237	∞ :	-0.0009	1635
SEPTIMAN SCI PTIMAS	0, 0,	∞ α		1636
SSSLOLVF	155	<i>&gt;</i>		1638
STFPDLESEF	%	01	0.0002	1639
SVLEVFEGR	226	6	0.0003	1640
SVVGNWQY	138	œ		1491
SVVGNWQYF	138	6	0.0002	1642
SVVGNWQYFF TEBDI ESEE	138	0.0	0.0085	1643
TEPDI ESEEOA	76	<b>7</b> =	2000	1645
TLGEVPAA	46	: ∞		1646
TMNYPLWSQSY	74	· =		1647
TSYVKVLH	281	. &		1648
TSYVKVLHH	281	6	0.5900	1649
VAELVHFLLLK	= 3	= '	-0.0002	1650
VORIGILI VIE	691	∞ :	00000	1691
VOPIGHLYIF VOPIGHI VIEA	69	0.1	0.0003	1652
VGNWOYFF	140	<u>:</u> ∞		1654
VLEVFEGR	227	) 00	0.0016	1655
VTLGEVPA	48	- ∞		1656
VTLGEVPAA	84	6	0.0003	1657
VVGNWQYF	139	∞		1658
VVGNWQYFF WGPRAI VETSY	139	6 -	0.0022	1659
YFFPVIFSK	145	- 6	0.0020	1991
YFFPVIFSKA	145	01	0.0003	1662
YIFATCLGLSY	283	0-	0.0020	1664 1664

Angewege         Position         No of         ATION OF           ALSPERPH         55         9         0.0009         1665           ALSPERPH         55         9         0.0035         1665           ALSPERPH         56         9         0.0035         1665           ALSPERPH         56         9         0.0035         1665           ALSPERPH         56         9         0.0007         1668           ALSPERPH         57         9         0.0007         1668           ALSPERPH         20         0         0.0007         1668           ALSPERPH         21         0         0.0007         1669           ALSPERPH         22         0         0         0.0007         1669           ALSPERPHISK         23         11         0         0.0007         1679           ALSPERPHISK         23         10         0         0.0007         1679           ALSPERPH         23         10         0         0.0007         1678           BLYALLARER         23         10         0         0.0007         1688           ECREDARIER         13         1         0         0         0	Sequence AADSPSPPH AADSPSPPH ACYEFLWGPR ALEGDCAPEEK ALIETSYVK ASSESTTINY DLVQENYLEY DLVQENYLEY DLVQENYLEY BSVFAHPR EDSVFAHPR EDSVFAHPR EGDVAISR EFQAAISR EFGAAISR EGDCAPEEK	Position 55 267 267 210 108 277 68 68	No. of	A*1101	SEQ ID NO.
255 367 41 1000000 257 427 428 429 429 429 420000000000000000000000000	PSPPH SFLWGPR SPPH DCAPEEK KMVELVH KTAVK STTINY VIFSK DENYLEY DENYLEY PENYLEY FAHPR AAHPR AAHPR AASR AASR AASR AASR	55 267 56 210 108 277 68	AIIIIII0 ACIUS	The second secon	
256	FFLWGPR SPPH SPPH TSYVK STTINY VIFSK AHPR AHPR FAHPR AAPR AAISR AAISR AAISR AAISR	267 56 210 108 277 68	6	0.0009	1665
H 1 100 0007  145	SPFH CAPEEK KMVELVH ISYVK STTINY VIFSK ALFR AHPR FAHPR FAHPR AISR AISR	210 210 108 277 68	01	0.0035	9991
H. 1080  2445  2456  2466  2467  246	CANTEEN CSYVK STTINY VIFSK VIFSK ANPR AHPR FAHPR ANSR AISR AISR AISR AISR	108 277 68 68	∞ :	2000	/991
277 289 289 299 290 2000 2000 2000 2000 200	STTINY VIESK VIESK VIESK AERK AAPRK FAHPR FAHPRK AISR AISR AISR AISRK	277 68 145	==	0.000	1008
R R 2249	STTINY VIFSK ENYLEY AHPR AHPR FAHPR FAHPR AISR AISR AISR AISR AISR	68 145	_ 0	00010	1620
145   249   10   10   10   10   10   10   10   1	VIESK ZENYLEY ZENYLEY AHPR AHPR FAHPR FAHPR AISR AISR AISR ANSR ANSRA	371	0	0.0280	1671
R 249  236  236  237  238  238  239  104  104  8 8  105  106002  107  107  108  109  100025  100025  100025  100027  111  112  113  113  114  115  116  117  118  118  118  119  119  110  110  110	JENYLEY PENYLEYR AHPR AHPR FEAHPR FAHPR AISR AISR AISR CAPEEK	2	6	0.0022	1672
R 2349 11 000018 235 9 9 00002 235 9 9 00002 235 9 9 00002 237 104 9 9 000001 232 115 10 00001 3 115 10 00001 3 115 11 00001 3 116 9 9 00001 3 117 11 11 11 11 11 11 11 11 11 11 11 11	JENYLEYR AAHPR AHPRK FAHPR FAHPRK AISR AAISR CAPEEK	249	10		1673
236 8 000005 236 9 9 000005 235 9 9 000005 235 9 9 000005 237 9 9 000005 237 9 9 000005 237 9 9 000006 238 115 10 000003 238 115 10 000005 238 10 000005 24 10 000005 25 10 000005 26 10 000005 27 10 000005 28 10	FAHPR AHPRK FAHPR FAHPRK AISR AAISR CAPEEK	249		0.0018	1674
236 9 0.0025 235 9 9 0.0025 235 9 9 0.00025 237 9 9 0.00002 237 115 110 0.00001 3	AHPRK FAHPR FAHPRK AISR AISR APEEK	236	80	0.0005	1675
255 25 9 9 0,0002 104 9 9 0,0002 212 104 9 9 0,0002 212 212 10 9 0,0001 115 115 110 0,0001 115 115 110 0,0001 110 0,0001 110 0,0001 110 0,0001 110 0,0001 110 0,0001 110 0,0001 110 0,0001 110 0,0001 110 0,0001 110 0,0001 0,0002 110	FAHPR FAHPRK AISR AISRK APEEK	236	6	0.0025	1676
255 104 104 105 105 105 105 107 107 108 108 109 109 109 109 119 109 109 109 109 109	FAHPRK AISR AISRK SPEEK	235	<b>6</b>		1677
104   98   0,0002   2,12   104   99   0,0001   2,12   2,12   109   0,0001   2,12   2,12   109   0,0001   2,12   2,12   109   0,0001   1,12   1,12   1,10   0,0001   1,10   0,0001   1,10   0,0001   1,10   0,0001   1,10   0,0002   0,0002   1,10   1,10   0,0002   0,0002   1,10   1,10   0,0002   0,0002   1,10   1,10   0,0002   1,10   1,10   0,0002   1,10   1,10   0,0002   1,10   1,10   0,0002   1,10   1,10   0,0002   1,10   1,10   0,0002   1,10   1,10   0,0002   1,10   1,10   1,10   0,0002   1,10	AISK AISKK ZAPEEK DSVFAH	235	01		1678
No. 104	AISRK SAPEEK SISVFAH	40 <u>.</u>	<b></b>	•	6291
2.22 2.22 2.23 2.24 2.24 2.25 2.25 2.27 2.27 2.27 2.27 2.27 2.27	:APEEK :DSVFAH	104	6	0.0002	0891
10   10   10   10   10   10   10   10	DSV-AH	212	6	0.0001	1681
1		232	0.		1682
115   115   115   116   117	LEVFEGR	224	=	0.0008	1683
113   115   110	FLLLK	511	φ.	0.0011	1684
113	FLLLKY	115	01	0.0003	1685
102 102 103 104 8 105 280 107 118 119 119 119 118 118 118 119 119 119	FLLLKYK	27		0.0031	9891
102 110 0,0004 280 10 10 0,0004 168 8 9 0 0,0002 119 8 8 0,0170 118 8 8 0,0002 119 8 8 0,0004 110 8 8 0,0004 111 8 8 0,0004 111 8 8 0,0002 111 8 8 0,0002 112 8 8 0,0002 113 8 8 0,0002 114 9 111 115 116 117 117 118 119 119 119 119 119 119 119 119 119	SVLR	<del>1</del> 2	×	50000	/901
280 280 280 165 168 168 168 168 170 171 171 171 171 171 171 171 171 171	JAAISK JAAISK	7 (2)	2 =	0.0002	000
280 168 168 168 168 169 171 171 171 171 171 171 171 171 171 17	VKVI H	280	_ 0	1000:0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
168   169   169   160	VKVIHH	280	, U		1691
168   9   0,0002   146   8   9   119   9   0,0002   119   9   0,0170   119   19   19   19   19   19   19	VVPISH	165	<u> </u>	0.0002	1692
146   8   8   119   9   9   9   9   9   9   9   9	ISHLY	891	2.6	0.0002	1693
119 9 0.0170 67 111 111 0.0170 213 8 8 8 0.0047 8 8 11 0.0047 9 111 8 8 0.0002 298 8 8 0.0002 299 8 8 0.0008 289 10 8 0.0018	FSK	146	∞		1694
71 11 0.0170 213 8 8 191 8 8 193 4 8 8 11 0.0047 86 11 0.0002 9 11 8 8 118 8 8 118 10 0.0002 298 8 8 10 0.0018	KYRAR	119	6		1695
213 8 8 8 0.0047 294 8 8 0.0047 86 111 8 8 0.0047 9 111 8 8 8 8 8 8 8 0.0002 298 8 8 0.0018	NYTLWR	7.1	==	0.0170	9691
213 8 8 0,0047 294 8 8 0,0047 86 111 -0,0002 9 111 8 8 8 10 298 8 8 0,00018 289 10 8 0,0018	FSTTINY	29	=		1691
294 8 8 0.0047 86 111 -0.0002 9 118 8 0.0002 298 8 8 0.0002 299 10 0.0018	PEEK	213	∞		1698
294 8 0.0047 188 11 -0.0002 9 111 8 8 118 8 8 0.0002 298 8 8 0.0018 289 10 0.0018	VMPK	191	80		1699
188   11   0,0047   186   11   11   0,0002   11   118   118   8   8   10   0,0002   1298   10   0,0018   150   150   18   10   0,0018   150   10   150   10   150   10   150   10   1	HISY	294	∞		1200
86 11 -0.0002 9 11 8 8 118 10 0.0002 298 8 8 0.0018 289 10 0.0018	DNQVMPK	188	=	0.0047	1701
9 11 118 8 118 10 298 8 298 10 289 10 150 8	QEEEGPR	98	=	-0.0002	1702
118 8 0.0002 298 8 8 298 10 289 10	EEGLEAR	6	=		1703
118 10 0.0002 298 8 8 0.0018 289 10 0.0018	LKYR	118	8		1704
298 8 0.0018 10 289 160 8 10 150 8 8 10 150 8 8 10 150 8 10 150 8 10 150 8 10 150 8 10 150 8 10 150 150 150 150 150 150 150 150 150	LKYRAR	81	01	0.0002	1705
298 10 0.0018 1 289 10 8 1	чРГН	298	8		1706
289 10 150 8	PLHER	298	01	0.0018	1707
8 051	ІССЕРН	289	01		1708
	\SEY	150	∞ .		1709

		A#1101
Table XVII A	Mage 2 All Motif Peptides with Binding Data	No of
		Position

-		Table XVIIA Mage 2 All Motif Peptides with Binding Data	ing Data	
Sequence	Position	No. of Amino Acids	A*1101	SEQ ID NO.
ILVTCLGLSY	177	01	0.0002	1711
ISRKMVELVH	109	01	0.0002	1712
ISYPPLHEK	299	6	0.0280	1713
RAEMLES VLK KIGGEPHISV	132	00.	0.0009	1714
KVIHHTIK	2%2	⊇ ∞	00100	2171
LGDNOVMPK	061	o o	0.000	7171
LIETSYVK	278	\ <b>00</b>	0.0027	1718
LIETSYVKVLH	278	=		9121
LLGDNQVMPK	189	01	0.0014	1720
LLLKYRAR	120	∞ .	-0.0004	1721
LLMQDLVQENY	245	:		1722
LMQDLVQENY	246	<u>o</u> :	10000	1723
LSIMLE V FOR	223 116	2 •	1000.0	1/24
LVHFLLKY	91.	∞ <b>c</b>	0.000	27.1
LVHFLLLKYR	116	6	0.000	1727
LVOENYLEY	250	2 0		1728
LVQENYLEYR	250	\ <u>@</u>	6800.0	1729
LVTCLGLSY	178	: 6		1730
MLEVFEGR	227	• ••	-0.0004	1731
MVELVHFLLLK	113	=	0.0120	1732
PAADSPSPPH	54	01		1733
PACYELLWGPK	266	=	-0.0002	1734
PGSDPACY	262	<b>∞</b> (		1735
PLEÇKSÇH DI EODSOUCK	7 (	× -	60000	1736
PI HERAI R	303	2 0	0.0002	1738
PVIFSKASEY	148	0 C	0.0033	1730
ODFFPVIFSK	144	2 ⊆	0.0083	1740
ODLVQENY	248	? ∞		1741
<b>ODLVOENYLEY</b>	248	· =		1742
QVPGSDPACY	260	10		1743
RALIETSY	276	8		1744
RALIETSYVK	276	10	0.0750	1745
KAREPVTK	125	∞	-0.0003	1746
SFSTTINY	92	∞ :		1747
SMLEVFECK	226	6	0.0220	1748
SINCEGEOFR	00 9	<b>э</b> х о	0.0001	1,49
SSESTEMENT	82	y 5	20000	1751
STTINYTUME	72	0 5	0.0910	1757
SVFAHPRK	237	? ∞	0.0810	1753
TINYTLWR	74	, ∞	0.0550	1754
TLKIGGEPH	290	σ.		1755
121 47 121	107	•		07/1

v ·		Table XVIIA Mage 2 All Motif Peptides with Binding Data	ling Data	
Sequence	Position	No. of Amino Acids	A*1101	SEQ ID NO.
TSYVKVLHH	281	6	9900:0	1757
TTINYTLWR	73	6	1.1000	1758
VIFSKASEY	149	6	0.0330	1759
VTCLGLSY	179	∞		1760
VVEVVPISH	991	6	0.0100	1761
VVEVVPISHLY	991	==		1762
VVPISHLY	691	- ∞		1763
WGPRALIETSY	273	=		1764
YILVTCLGLSY	176	=		1765
YVKVLHHTLK	283	10	0.0160	1766

	Dinding Date
Table XVII B	2 4 11 Matis Dentides with Dinding Date
	200

		Table XVII B Mage 3 A11 Motif Pentides with Binding Data	Data	
Sequence	Position	No. of Amino Acids	A*1101	SEQ ID NO.
		Chick County		
ACYEFLWGPR	267	01	0.0035	1921
ALSKRVAELVH	23.0	= •		1768
ACCIDIAN	89	ν S	0.1700	69/1
ATOLOLOV	129	2 •	0.0550	0//1
DAII GDPK	236	00	0.0003	1771
Dell GDBKK	236	<b>o</b> c	5000.0	2771
EDAIL GDPK	235		20,000	2111
EDSH GDPKK	235	, ,	2000.0	200
EFOAALSR	100	2 ∝	2000:0	9271
EFOAALSRK	101	o 0*	1000 0	7771
EGDCAPEEK	212	. 6	1000:0	1778
ELMEVDPIGH	165	10	0.0002	1779
ELSVLEVFEGR	224	? =	0.0023	1780
ELVHFLLLK	115	: 6	1100.0	1281
ELVHFLLLKY	115	01	0.0003	1782
ELVHFLLLKYR	115	? =	0.0031	1783
ESEFOAALSR	102	: =	0,000	1784
ESEFOALSRK	102	2 =	20000	1785
ETSYVKVLH	280	: 0		1786
ETSYVKVI HH	280	` =		1787
EVDPIGHLY	991	2 σ	6000 0	1788
FATCLGLSY	178	\ <b>o</b>	0.0004	1789
FFPVIFSK	146	· «		0621
FLLLKYRAR	119	, 6		1621
FVOENYLEY	250	. 0		1792
FVOENYLEYR	250	, 01	0.0012	1793
GASSLPTTMNY	19	? =		1794
GDCAPEEK	213	; ∝		1795
GDNOIMPK	161	) œ		1796
GDPKKLLTOH	240	01	0.0002	1797
GGPHISYPPLH	295	=		1798
GLLGDNQIMPK	188	=	0.0570	1799
GSVVGNWQY	137	6		1800
HCKPEEGLEAR	6	=		1801
HFLLLKYR	8118	∞		1802
HFLLLKYRAR	<u> </u>	01	0.0002	1803
HFVQENYLEY	249	01		1804
HFVQENYLEYR	249	= '		1805
HISYPPLH	298	∞ :		1806
HMVNISGGFH IFATCLGLSV	787	0.5	00000	/081
IIVI AIIAR	203	2 σ	1000	8081
ISGOPHISY	293	· 0	0.0002	0181
IVLAIIAR	204	√ ∞	0.0037	1181
KISGGPHISY	292	10		1812
KVLHHMVK	285	∞	0.0190	1813

Table XVII.B	Mage 3 A11 Motif Peptides with Binding Data	

	a	Table XVII B Mage 3 A11 Motif Peptides with Binding Data	Data	
Sequence	Position	No. of Amino Acids	A*1101	SEQ ID NO.
CONCORABK	001	c		
LGDPKKLLTOH	239	~ <del>-</del>		1814
LGSVVGNWOY	136	0	0.0012	5181
LIIVLAIIAR	202	01	0.0021	1817
LLGDNQIMPK	189	01	0.0110	1818
LLIIVLAIIAR	201	=	0.0056	1819
LLLKYKAK	120	∞ ;	-0.0004	1820
LEIQHFVQENI	247	= •		1281
LMEVDPIGH 1 MEVDPIGH	991	6:	0.0001	1822
I SPEVAEL VIII	90 0	_	2000	1823
I SVI EVEEGR	735	2 2	0.0002	1824
1 TOHEVOENY	246	2 5	0.0030	5 <b>7</b> 91
LVETSYVK	278	⊇ ∝	0.002	0791
LVETSYVKVLH	278	<b>&gt;</b> =		1828
LVHFLLLK	116	c	0 1500	1829
LVHFLLLKY	116	. •	0.0100	1830
LVHFLLLKYR	116	. 01	0.0022	1831
MLGSVVGNWQY	135	=		1832
MNYPLWSQSY	75	01	0.0002	1833
MVKISGGPH	290	6	0.0002	1834
PACYEFLWGPR	266		-0.0002	1835
PGSDPACY	262 <u>°</u>	∞ (		1836
PLEQKSQH	~ ~	∞ :	•	1837
PLECKSCHCK PI LEWAN P	303	0.	0.0002	1838
OVECSDBACV	360	∞ \$	-0.0003	689
RAI VETSV	200	0] •		1840
RAIVETSV	2/2	o <u>S</u>	00110	1841
RARFPVTK	272	2. •	0.1100	1042
SGGPHISY	294	∞ ∞	60000	1845
SILGDPKK	237	) <b>«</b>	0.0012	1845
SLPTTMNY	70	) <b>00</b>		1846
SSLPTTMNY	69	. 6		1847
SVLEVFEGR	226	. 6	0.1400	1848
SVVGNWQY	138	8		1849
TMNYPLWSQSY	74	==		1850
TSYVKVLH	281	8		1851
TSYVKVLHH	281	6	0.0066	1852
VAELVHFULLK	113	= '	0.0011	1853
VDPIGHLY	169	∞ (		1854
VLEVFEUR WGPRAL VFTSV	773	∞ =	0.0005	1855
YFFPVIFSK	145	5	0.0270	1857
YIFATCLGLSY	176			1858
YVKVLHHMVK	283	01	0.0061	1859

		Table XVIII A Mage 2 A24 Motif Peptides with Binding Data	Data	
Sequence	Position	No. of Amino Acids	A*2401	SEQ ID NO.
CYEFLWGPRAL	268		0.0004	1860
EFLWGPRAL	270	6	90000	1981
EFLWGPRALI	270	01	0.0097	1862
EYLQLVFGI	156	6	3.5000	1863
IFSKASEYL	150	6	0.0230	1864
IFSKASEYLQL	150	=	0.0950	1865
IWEELSML	221	∞	0.0007	1866
IWEELSMLEVF	221		0.0170	1867
KMVELVHF	112	∞	0.0005	1868
KMVELVHFL	112	6		1869
KMVELVHFLL	112	01		1870
KMVELVHFLLL	112	=		1871
LMQDLVQENYL	246	=		1872
LWGPRALI	272	000	0.1200	1873
LYILVTCL	175	8	0.0086	1874
LYILVTCLGL	175	01	0.0140	1875
MFPDLESEF	26	6	0.0140	1876
RMFPDLESEF	96	01	0.0016	1877
SFSTTINYTL	70	10	0.0150	1878
SFSTTINYTLW	70	=	0.0280	1879
SYPPLHERAL	300	10	0.0003	1880
SYVKVLHHTL	282	01	0.1600	1881
VFAHPRKL	238	88	0.0005	1882
VFAHPRKLL	238	. 6	90000	1883
VFEGREDSVF	230	01	0.0004	1884
VMPKTGLL	195	∞	-0.0004	1885
VMPKTGLLI	195 195	6 <u>-</u>	0.2300	1886
	2	2	0.0.0	/001

		Table XVIII B Mage 3 A24 Motif Peptides with Binding Data	iding Data	
Sequence	Position	No. of Amino Acids	A*2401	SEQ ID NO.
CYEFLWGPRAL	268	=	0.0004	1888
EFLWGPRAL	270	. 6	90000	1889
EMLGSVVGNW	134	10	0.0017	1890
HFVQENYL	249	2 ∞	-0.0004	1881
HMVKISGGPHI	289	. =		1892
IFATCLGL	171	. ∞	0.0120	1893
IFSKASSSL	150	6	0.0160	1894
IFSKASSSLQL	150	=	0.0910	1895
IMPKAGLL	195	<b>∞</b>		9681
IMPKAGLLI	195	6	0.4200	1897
IMPKAGLLII	195	10	0.0500	1898
IWEELSVL	221	<b>∞</b>	-0.0004	1899
IWEELSVLEVF	221	=	0.0260	0061
LMEVDPIGHL	166	10		1901
LYIFATCL	175	œ	0.0140	1902
LYIFATCLGL	175	10	0.0480	1903
NWQYFFPVI	142	6	0.5300	1904
NWQYFFPVIF	142	10	0.0170	1905
QYFFPVIF	144	∞	0.1200	1906
SYDGLLGDNQI	185	=	0.0026	1907
SYPPLHEW	300	∞	0.0420	1908
SYPPLHEWVL	300	01	0.5900	6061
TFPDLESEF	64	6	0.0049	1910
VFEGREDSI	230	. 6	-0.0004	1161
VFEGREDSIL	230	10	-0.0005	1912

	DR5w12	ſ																																													
	DRSw11 DRS								0.0270					-0.0005								-0.0005																									
	DR4w15 DR								0.0				Š	'n								9.0																									
g Data	DR4w4	-0.0032	-0.0032				,	-0.0032	0.1600				0000	0.0070	-0.003							0.0370	-0.0032		0.0051	0.0120				-0.0032											-0.0032						
Mage 2 DR Super Motif Peptides with Binding Data	DR3	00.0	0.1400	0.0130					0.0113				7,000	0.0036				0.0660				0.0025													0.0072			0.1500									
Peptides w	DR2w282								1.0000				0000	0.0009								-0.0022																									
per Motif	DR2w81								0.0620				,,,,,,	0.0040								0.0037																									
ge 2 DR Su	DRI	0.0330	-0.0005					-0.0003	1.2000				10000	0.0084	0.0							0.0120	-0.0005	1	0.0120	0.0000				0.0019											0.0008						
Mag	Position	24	£ 68	220	272	221	255	298	<u>\$</u> :	64 ;	. 48	<del>5</del> 8	7 5	<u>6</u> 6	120	176	166	210	205	174	134	200	22	25	5 2	507	99	47	115	195	<del>24</del> 5	, o	146	250	191	278	139	245	175	4	501	9 9	691	2 [2	224	120	1/7
Table XIX A 1	Exemplary SeqID Num	1913	1914	9161	1917	1918	1919	1920	1921	7761	1923	4761	276	0761	1928	1070	1930	1931	1932	1933	1934	1935	1936	1937	1938	1040	1941	1942	1943	1944	1945	1940	1948	1949	1950	1951	1952	1953	1954	1955	1956	1958	1050	1960	1961	1063	7061
Tabl	Exemplary Sequence	ALGLVGAQAPATEEQ	DGLLGDNOVMPKTGL	EEKIWEELSMLEVFE	<b>EFLWGPRALIETSYV</b>	EKIWEELSMLEVFEG	ENYLEYROVPGSDPA	EPHISYPPLHERALR	ESEFOAAISRKMVEL	EVILGEVPADSPSP	FFPVIFSKASEYLOL	FFVIFSKASEYLULV	GEALGLYGACAPA IE	GIEVVEVVPISHLYI	HEI I I KVRAREDVTK	HI VII VTCI GI SVDG	IEVVEVVPISHI VII	IIAIEGDCAPEEKIW	IIVI AIIAIEGDCAP	ISHLYILVTCLGLSY	KAEMLESVLRNCODF	KTGLLIIVLAIIAIE	<b>LGEVPAADSPSPPHS</b>	LGLVGAOAPATEEOO	LIIVLAIIAIEGDCA	I I VVD A DEDVITVAEM	LOLVEGIEVVEVVPI	LVEVTLGEVPAADSP	MVELVHFLLLKYRAR	NOVMPKTGLLIIVLA	PRKLLMODLVOENYL	OA AISPKINVEI VHEI	ODFFPVIFSK ASEYL.	ODLVOENYLEYROVP	<b>QLVFGIEVVEVVPIS</b>	RALIETSYVKVLHHT	REPVTKAEMLESVLR	<b>RKLLMODLVOENYLE</b>	SHLYILVTCLGLSYD	SSTLVEVTLGEVPAA	TGLLIIVLAIIAIEG	VELVHILLIN I KAKE	VEGIEVAEVAPISHI	VVPISHLYILVTCLG	WEELSMLEVFEGRED	VEET WODD AT TETEV	
	Core SeqID Num	2044	2049 2046	2047	2048	2049	2050	2051	2052	2023	2054	2022	2020	2057	2056	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2072	2073	2074	2075	2076	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2000	2091	2002	2002	607
	Core Sequence	LVGAQAPAT	LSYBOLLGD	IWEELSMLE	WGPRALIET	WEELSMLEV	LEYROVPGS	ISYPPLHER	FOAMISKEM	LGEVPADS	VIFSKASEY	IFSKASETL	LCLVGACAP	VVEVVEISH	IIKVRARFD	II VICE GLA	VEVVPISHL	IEGDCAPEE	LAHAIEGD	LYILVTCLG	MLESVLRNC	LLIIVLAII	VPAADSPSP	VGAOAPATE	VLAITAIEG	VP A DEDVTV	VFGIEVVEV	VTLGEVPAA	LVHFLLLKY	MPKTGLLII	LLMODLVOE	ISPKMVFI V	FPVIFSKAS	VOENYLEYR	FGIEVVEVV	IETSYVKVL	VTKAEMLES	LMODLVOEN	YILVTCLGL	LVEVILGEV	LIIVLAIIA	VAFLLLNIK	FVVEVVDI	ISHLYILYT	LSMLEVFEG	I WGPP AT IE	ココレンシャコ

Sequid Num			IX A 2	Mage 2 DR S	uper Motif Pepti	Mage 2 DR Super Motif Peptides with Binding Data		
1913		Exemplary Sequence	Exemplary SeqID Num	DR6w19	DR7	DR8w2	DR9	DRw53
1914   1915   1916   1916   1916   1917   1918   1918   1918   1920   1920   1920   1921   1922   1923   1924   1925   1924   1925   1926   1936   1937   1938   1940   1940   1941   1945   1946   1946   1955	Ϋ́	ALGLVGAQAPATEEQ	1913		-0.0011			
1916   1917   1918   1918   1919   1920   1920   1923   1923   1923   1924   1925   1924   1925   1926   1926   1926   1926   1927   1928   1928   1928   1939   1939   1940   1941   1942   1942   1944   1945   1946   1946   1956	38	LLGDNQVMPKTGL	1915		-0.0011			
1918   1918   1920   1920   1920   1920   1920   1922   1924   1924   1924   1925   1926   1926   1926   1926   1926   1926   1937   1938   1934   1934   1934   1934   1934   1934   1934   1934   1934   1934   1935   1936   1936   1936   1936   1936   1936   1936   1936   1937   1938	品品	EEKIWEELSMLEVFE EFLWGPRALIETSYV	1916 1917					
1920   1920   1921   1922   1923   1924   1924   1925   1925   1925   1925   1925   1925   1926   1926   1926   1927   1928   1939   1939   1939   1939   1934   1944   1945   1946   1947   1946   1950	X E	IWEELSMLEVFEG YI FYROVPGSDPA	1918					
1921   0.0067   0.5100     1923   1924     1925   0.0710   0.0900     1926   0.0710   0.0900     1927   0.0011     1938   0.0015   0.0120     1939   0.0130     1940   0.0130     1946   0.0130     1947   0.0146     1948   0.0011     1950   0.0011     1951   0.0011     1952   0.0011     1958   0.0011     1959   0.0011     1959   0.0011     1959   0.0011     1959   0.0011     1950   0.0011     1951   0.0011     1952   0.0011     1956   0.0011     1956   0.0011     1957   0.0011     1958   0.0011     1959   0.0011     1959   0.0011     1950   0.001	ם	EPHISYPPLHERALR	1920		-0.0011			
1925 1926 1927 1927 1928 1930 1931 1932 1933 1934 1940 1940 1940 1940 1940 1940 1940 1940 1940 1940 1940 1940 1950	ES	EFQAAISRKMVEL	1921	0.0067	0.5100	0.0310		
1924   1925   1926   1926   1927   1928   1928   1928   1928   1929   1929   1929   1930   1931   1932   1933   1934   1934   1935   1934   1945   1946   1946   1947   1948   1959   1950	3 🗄	VIESKASEYLOL	1923					
1925 1926 1927 1929 1929 1930 1931 1933 1934 1934 1940 1940 1940 1940 1940 1940 1950 1950 1950 1950 1950 1950 1950 195	FP	/IFSKASEYLQLV	1924					
1920 1920 1930 1931 1931 1932 1933 1938 1940 1940 1940 1940 1940 1950 1950 1950 1950 1950 1950 1950 195	<u> </u>	ALGLVGAQAPATE	1925	0.00	0000	0000		
1928 1930 1931 1933 1933 1934 1938 1940 1940 1940 1940 1940 1950 1950 1950 1950 1950 1950 1950 195	ਰ ਹੋ	LIVLAIJAIEGD	1927	0.0710	-0.0011	0,000		
1929 1930 1931 1933 1934 1938 1940 1940 1940 1945 1946 1946 1950	土	HFLLLKYRAREPVTK	1928					
1931 1932 1933 1934 1935 1936 1940 1940 1941 1945 1945 1946 1946 1946 1950	∄ €	YILVTCLGLSYDG	1929					
1932   1933   1934   1935   1935   1935   1935   1936   1936   1936   1936   1937   1938   1940   1940   1945   1945   1946   1946   1947   1948   1950	2 ₹	V EV V FISHLITIL	1930					
1933 1934 1935 0.0015 0.0220 1936 -0.0011 1940 0.0120 1940 0.0130 1941 1942 0.0130 1944 0.0011 1948 1948 1950 1950 1951 1956 1958 1956 1960 1961		TAIIAIEGDCAP	1932					
1934   1934   1935   0.0015   0.0230   1936   1936   1936   1938   0.0011   1939   1939   0.0120   1940   1941   1942   1945   1946   1950	ISI	SHLYILVTCLGLSY	1933					
1935 0.0015 0.0230 1936 -0.0011 1939 0.0120 1940 0.0130 1941 1942 0.0130 1944 -0.0011 1948 1948 1950 1950 1951 1954 1955 1956 1960	≨!	EMLESVLRNCQDF	1934					
1930 1938 1940 1941 1945 1946 1950 1950 1950 1950 1950 1950 1960	Z :	GLLIIVLAIIAIE EVDA A DEPEDDUE	1935	0.0015	0.0290	-0.0004		
1938 1940 1941 1943 1944 1946 1950 1950 1950 1950 1950 1960	3 5	LVGAOAPATEEOO	1937		100.5			
1939 1940 1941 1944 1946 1950 1950 1950 1950 1950 1960	i =	LIIVLAIIAIEGDCA	1938		0.0120			
1940 1941 1943 1944 1946 1950 1950 1950 1950 1960 1960	⊒:	LLIIVLAIIAIEGDC	1939		0.0130			
1942 1943 1944 1946 1950 1950 1953 1956 1960 1960	3 2	K Y KAKEPV I KAEM JI VEGIEVVEVVPI	1940					
1943 1944 1946 1946 1950 1950 1953 1956 1960 1960	? ]	EVTLGEVPAADSP	1942					
1944 1945 1946 1950 1953 1954 1956 1956 1960 1961	Ź	MVELVHFLLLKYRAR	1943					
1945 1946 1946 1950 1951 1955 1956 1960 1961	2	VMPKTGLLIIVLA	1944		-0.0011			
1946 1947 1950 1953 1954 1956 1960 1961 1963	2 2	KLLMQDLVQENYL	1945					
1948 1949 1950 1951 1953 1956 1960 1961	žč	MFFDLESEFÇAAI	1946					
1945 1950 1951 1953 1955 1956 1960 1963	> C	DEFPVIESKASEVI.	1948					
1950 1951 1953 1954 1955 1950 1960 1963	, O	LVOENYLEYROVP	1949					
1951 1952 1953 1954 1956 1960 1960 1963	Ó	VFGIEVVEVVPIS	1950					
1952 1953 1954 1955 1957 1960 1961	R	LIETSYVKVLHHT	1951					
1953 1954 1955 1956 1960 1961	RE	PVTKAEMLESVLR	1952					
1954 1955 1956 1959 1960 1961 1963	¥ :	LLMQDLVQENYLE	1953					
1955 1956 1958 1960 1961 1963	SH	LYILVTCLGLSYD	1954					
ARE 1950 FC 1958 AL 1959 AG 1960 SY 1963	3 6	ILVEVILGEVPAA	1955		11000			
	2 5	I VHFI I KYRARE	1957		-0.001			
0.	: <del>-</del>	VEVVPISHLYILVTC	1958					
0.	>	VFGIEVVEVVPISHL	1959					
·	5	PISHLYILVTCLG	1960					
	<b>&gt;</b>	WEELSIMLE VEGRED YEFLWGPRALIETSY	1961					
	5	YILVTCLGLSYDGLL	1963					

		Lapid	I adie AIA A I	Mage	DK Sul	per Motil	Mage 2 DR Super Motif Peptides with Binding Data	in Bindin	g Data				
Core Sequence	Core SeqID Num	Exemplary Sequence	Exemplary SeqID Num	Position	DRI	DR2w81	Position DR1 DR2w81 DR2w262 DR3	DR3	DR4w4	DR4w15	DR5w11	DR4w15 DR5w11 DR5w12	
VPGSDPACY	2096	YROVPGSDPACYEFL	1965	260							0		
VLHHTLKIG	2097	YVKVLHHTLKIGGEP	9961	285									

		Table XIX A 2	X A 2	Mage 2 DR Sup	er Motif Peptid	Mage 2 DR Super Motif Peptides with Binding Data			
Core Sequence	Core SeqID Num	Exemplary Sequence	Exemplary SeqID Num	DR6w19	DR7	DR8w2	DR9	DRw53	
VPGSDPACY VLHHTLKIG	2096 2097	YRQVPGSDPACYEFL YVKVLHHTLKIGGEP	1965 1966						

	DR5w12																																														
	DR5w11									0.0310										-0 0008									-0.0005			0.0650	-0.0005														
	DR4w15																																														
	DR4w4		-0.0008	-0.0032	-0.0032	10000				0.0590					0.0110		70000	7700.0		-0.0055			-0.0008				-0.000	0000	-0.0032		-0.0032	0.1100	0.0240														
ding Data	DR3			30000	-0.0023	0.0058				0.0059										1 8000									0.0021		,	9000'0	90000			0.0150											
s with Bin	DR2w2B2									1.1000										-0.0010									0.0013			0.0300	-0 000														
tif Peptide	DR2w81									0.3100										0.0057									0.0020			0.0030	0.0170														
Super Mo	DRI		0.0045	0.0330	-0.0003					1.9000					0.0110		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0024		0 0003			0.0043				90000	0.000	0.0250		0.0440	0.1100	0.0510														
Mage 3 DR Super Motif Peptides with Binding Data	Position	911	201	4 <u>5</u>	189	220	272	221	255	104	49	148	149	22 :	373	6 6	707	200	921	991	174	134	200	245	52	4 §	203	123	9	47	195	<del>7</del> 2	y 5.	108	250	161	146	278	67 P	‡ <u>-</u>	171	163	142	224	303	260 260	285
Table XIX B 1	Exemplary SeqID Num	1961	1968	6961	1761	1972	1973	1974	1975	1976	1977	1978	6/61	1980	1861	7967	1983	1000	1986	1987	1988	1989	1990	1661	1992	5661	1995	961	1997	1998	1999	2000	2002	2003	2004	2005	2006	2002	2008	2010	2011	2012	2013	2014	2015	2017	2018
Table A	Exemplary Sequence	AELVHFLLLKYRARE	AGLLIIVLAIIAREG	ALGLVGAQAPATEEQ	DGI I GDNOIMPK AGI	EEK IWEEL SVI. EVEE	EFLWGPRALVETSYV	EKIWEELSVLEVFEG	ENYLEYRQVPGSDPA	ESEFQAALSRKVAEL	EVTLGEVPAAESPDP	FFPVIFSKASSSLQL	FPVIFSKASSSLQLV	GEALGLVGAQAPATE	GHLYIFAICLGLSYD	GIELME V DPIGHLYI	GELIIVEAIIANEUD	THE LIVE A BENYALY	HI VIEATCI GI SVDG	IFI MEVDPIGHLYIF	IGHLYIFATCLGLSY	KAEMLGSVVGNWQYF	KAGLLIIVLAIIARE	KKLLTQHFVQENYLE	LGEVPAAESPDPPQS	LGLVGAQAPATEEQE	I IIVI AIIAREGDO	11 KYRARFDVTKAFM	LOLVFGIELMEVDPI	LVEVTLGEVPAAESP	NQIMPKAGLLIIVLA	NWQYFFPVIFSKASS	PVIFSK ASSSI OI VF	OAALSRKVAELVHFL	<b>QHFVQENYLEYRQVP</b>	QLVFGIELMEVDPIG	QYFFPVIFSKASSSL	RALVEISYVK VLHHM	KEFVIKAEMLUSVVU		VDPIGHLYIFATCLG	VFGIELMEVDPIGHL	VGNWQYFFPVIFSKA	WEELSVLEVFEGRED	VPPI HEWVI REGEE	YROVPGSDPACYEFL	YVKVLHHMVKISGGP
	Core SeqID Num	2098	2099	2100	2101	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2117	2117	2118	2119	2120	2121	2122	2123	2124	2125	2127	2128	2129	2130	2131	2512	2134	2135	2136	2137	2138	2139	2140	2142	2143	2144	2145	2140	2148	2149
	Core Sequence	VHFLLLKYR	LIIVLAIIA	LVGAQAPAT	CONOIMPK	IWEEL SVI E	WGPRALVET	WEELSVLEV	LEYRQVPGS	FOAALSRKV	LGEVPAAES	VIFSKASSS	IFSKASSSL	LGLVGAQAP	YIFAICLGL	LMEVDPICH	IIVLAIIAK ISVDDI LIEW	11 VVD A DED	IFATCI GI S	MEVDPIGHI	LYIFATCLG	MLGSVVGNW	LLIIVLAII	LTQHFVQEN	VPAAESPDP	VGAQAPATE	VLAHAREO IVI AIIARE	VRARFPUTK	VFGIELMEV	VTLGEVPAA	MPKAGLLII	YFFPVIFSK	FSK ASSSI O	LSRKVAELV	VQENYLEYR	FGIELMEVD	FPVIFSKAS	VEISYVKVL	VINAEMLUS	LVEVILGEV	IGHLYIFAT	IELMEVDPI	WQYFFPVIF	LSVLEVFEG	I HEWVI REG	VPGSDPACY	VLHHMVKIS

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Sequence         Now Sequence         Exempliny         Exempliny         DR6-019         DR8-02         DR8-05			Table XIX B 2	Mage 3 DR Super Motif Peptides with Binding Data	er Motif Peptid	les with Bin	ding Data		
2099 AGLUNFILLKYRARE 1967 -0.0026 2100 AGLINFAREGG 1968 -0.0016 2101 GLGSYDGALGDNQI 1970 -0.0011 2102 DGLLGNQIAREAGG 1971 -0.0011 2103 EERWERSVILEVPE 1972 -0.0011 2104 EFWWGRALVERYPE 1972 -0.0011 2106 EFWWGRALVERYPE 1975 -0.0005 0.7400 2107 ESPGAALVERYPE 1977 -0.0011 2108 EFWYLSKASSLQL 1978 0.0005 0.7400 2108 EFWYLSKASSLQL 1978 0.0005 0.7400 2109 EFWYRSKASSLQL 1978 0.0005 0.7400 2110 GEAGLOVAGAPATE 1980 -0.0011 2111 GGALGLVAGAPATE 1980 0.0007 2112 GHLYIPATCLGLSYDG 1981 0.0007 2114 GLLINYARAEDYLY 1982 -0.0011 2115 GHLYIPATCLGLSYDG 1981 0.0007 2116 HFLLINYKAREDYLY 1989 0.0001 0.0007 2117 GLANGAVARD 1980 0.0001 0.0001 2118 HELLINYARAEDOCA 1990 0.0001 0.0001 2121 LINYARAEDOCA 1990 0.0001 0.0001 2121 LINYARAEDOCA 1990 0.0001 0.0000 2122 LGVAGAPATEQE 1990 0.0001 0.0000 2123 LGVAGAPATEQE 1990 0.0001 0.0000 2124 CALLORYARESDPROS 1990 0.0001 0.0000 2125 LGVAGAPATEQE 1990 0.0001 0.0000 2126 LGVAGAPATEQE 1990 0.0001 0.0000 2127 LLINYARAEDOCA 1990 0.0001 0.0000 2128 LAVENTERENDIN 1990 0.0000 0.0000 2129 LAVENTERENDIN 1990 0.0001 0.0000 2130 NGMPRAGILLINYA 2000 0.0000 0.0000 2131 QVPGIELMEVPROS 2000 0.0000 0.0000 2132 NGMPRAGILLINYA 2000 0.0000 0.0000 2133 RALVERSVERSUCH 2000 0.0	ore	Core SeqID Num	Exemplary Sequence	Exemplary SeqID Num	DR6w19	DR7	DR8w2	DR9	DRw53
20099 AGLINIAMREG 1966 -00005 2100 CLGLSYDGLLGDN() 2101 CLGLSYDGLLGDN() 2102 EDGLCDN() 2103 EBGWEELSVILEYEE 1977 2104 EFRWEELSVILEYEE 1977 2105 EBGWEELSVILEYEE 1977 2106 EFRWEELSVILEYEE 1977 2107 EFRWEELSVILEYEE 1976 2108 EFRWEELSVILEYEE 1977 2109 EFFWESSZQL, 1978 2111 GLEMEVDRGHLY 1982 2112 GHLYRATCLGLSYD 1983 2113 GELMEVDRGHLYT 1982 2114 GLINIAMREGD 1983 2115 GHLYRATCLGLSY 1988 2116 GHLYRATCLGLSY 1988 2117 GHLYRATCLGLSY 1988 2118 GHLYRATCLGLSY 1988 2119 GHLYRATCLGLSY 1988 2110 GHLYRATCLGLSY 1988 2111 GHLYRATCLGLSY 1988 2111 GHLYRATCLGLSY 1988 2112 GHLYRATCLGLSY 1988 2122 KALLINAMREGD 1993 2124 GLACOROPHER 1990 2125 LLEVRAGERPTKAEM 1995 2125 LLEVRAGERPTKAEM 1995 2126 LLEVRAGERPTKAEM 1995 2127 LLEVRAGERPTKAEM 1995 2128 LLEVRAGERPTKAEM 1995 2129 LLEVRAGERPTKAEM 1995 2120 LLEVRAGERPTKAEM 1995 2120 LLEVRAGERPTKAEM 1995 2121 KALLINAMREGDCA 1995 2122 LLEVRAGERPTKAEM 1995 2123 LLEVRAGERPTKAEM 1995 2124 LLEVRAGERPTKAEM 1995 2125 LLEVRAGERPTKAEM 1995 2126 LLEVRAGERPTKAEM 1995 2127 LLEVRAGERPTKAEM 1995 2128 LLEVRAGERPTKAEM 1995 2129 LVRCHELMEVDPIG 2005 2131 NODINFKAGSLIHTA 2007 2132 RYFTDLEEFCAAL 2005 2133 RALVETSVWULHIM 2007 2134 QAALSRWYAELWFL 2144 VCGELMEVPREGRED 2016 2144 VCGELMEVPREGRED 2017 2145 VCGELMEVPREGRED 2017 2146 VCGELMEVPREGRED 2017 2146 VCGELMEVPREGRED 2017 2147 VCGELMEVPREGRED 2017 2148 VCGELMEVPREGRED 2017 2149 VCGELMEVPREGRED 2017 2140 VCGELMEVPREGRED 2017 2141 VCGELMEVPREGRED 2017 2144 VCGELMEVPREGRED 2017 2145 VCGELMEVPREGRED 2017 2146 VCGELMEVPREGRED 2017 2147 VCGELMEVPREGRED 2017 2148 VCGELMETSVERVERTER 2017 2149 VCGELMEVPREGRED 2017 2140 VCGELMETSVERVERTER 2017 2141 VCGELMETSVERVERTER 2017 2144 VCGELMETSVERVERTER 2017 2145 VCGELMETSVERVERTER 2017 2146 VCGELMETSVERV	HFLLLKYR	2098	AELVHFLLLKYRARE	1961					
2100 ALGLSYDGLGDNQ) 2101 CLGLSYDGLGDNQ) 2102 DGLLGDNQIMEAGE 2106 EKUWELSVLEVFE 2106 EKUWELSVLEVFE 2106 EKUWELSVLEVFE 2107 ESTFOALSRKVAEL 2107 ESTFOALSRKVAEL 2108 EKUWELSVLEVFE 2109 FFPVIFSKASSLQL 2111 GEALGLYGAQARAE 2111 GEALGLYGAQARAE 2112 GHLYFATCLGLSYD 2113 GHLYFATCLGLSYD 2114 GLLIVARAEDYTK 2116 GELMEYDPGHLYT 2116 GELMEYDPGHLYT 2117 GHLYFATCLGLSYD 2118 HFLLKYRAEDYT 2119 GHLYFATCLGLSYD 2111 GGLAGDGRAY 2111 GGRAY 2111 GGLAGDGRAY 2111 GGRAY 211 GGRAY 2111 GGRAY 2111 GGRAY 2111 GGRAY 2111 GGRAY 2111 GGRAY 211 GGRAY 2111 GGRAY 2111 GGRAY 2111 GGRAY 2111 GGRAY 2111 GGRAY 2	IVLAIIA	2099	AGLLIIVLAIIAREG	1968		-0.0026			
200   CALCID MARKATE   1970   CALCID MARKATE   1971   CALCID MARKATE   1972   CALCID MARKATE   1972   CALCID MARKATE   1973   CALCID MARKATE   1975   CALCID MARKATE   1976   CACCID MARKATE	VGAQAPAT	2100	ALGLVGAQAPATEEQ	6961		-0.0011			
2103   EEKWEELSVLEYFE   1972   1973   2104   EEKWEELSVLEYFE   1973   2106   EEKWEELSVLEYFE   1973   2106   EEKWEELSVLEYFE   1975   2106   ETKWEELSVLEYFE   1976   2107   2108   ETKWEELSVLEYFE   1976   2109   EFFYREYRSSELQL   1978   2109   EFFYREYRSSELQL   1978   2109   EFFYREYRSSELQL   1978   2111   GALIGUSARVAET   1982   2109   EFFYREYRSSELQL   1978   2111   GALIGUSARVAET   1982   2111   GALIGUSARVAET   1982   2114   GALIGUSARVAET   1982   2114   GALIGUSARVAET   1982   2114   GALIGUSARVAET   1982   2114   GALIGUSARVAET   1982   2115   GALIGUSARVAET   1982   2116   GALIGUSARVAET   1982   2117   GALIGUSARVAET   1982   2119   GALIGUSARVAET   1981   2119   GALIGUSARVAET   1982   2119   GALIGUSARVAET   2001   20	STRUCTOR	2102	DGLI GDNOIMPK AGE	1971		-0.0011			
2104   EFLWGRALVETSYY   1973   1974   2006   EFLWGRALVETSYY   1974   2006   EWWELLSVLEYEGG   1974   2006   EWWELLSVLEYEGG   1974   2007   20	VEELSVLE	2103	EEKIWEELSVLEVFE	1972					
2105   ERVNEELSVLEYEG   1974	GPRALVET	2104	<b>EFLWGPRALVETSYV</b>	1973					
2106   EBYLERQPROSDPA   1975   1970	EELSVLEV	2105	EKIWEELSVLEVFEG	1974					
2107   ESEPGAALSRKVAEL   1976   0.0005   0.7400	SYRQVPGS	2106	ENYLEYRQVPGSDPA	1975					
2108   EVTLGEVAESPDP   1977	DAALSRKV	2107	ESEFQAALSRKVAEL	9261	0.0005	0.7400	0.0430		
2109   FFPVIFSKASSLOL   1978   1978   1971   1971   1971   1972   1172   1172   1272   1272   1272   1272   1272   1272   1273   1272	SEVPAAES	2108	<b>EVTLGEVPAAESPDP</b>	161					
2110   GEALCHORGADATE   1979   1979   1110   GEALCHORGADATE   1980   1970   1111   GEALCHORGADATE   1981   1971   1971   1972   1111   GEALCHORGADATE   1982   1112   GELMEVDRIGHLYT   1982   1114   GCLLINCHORGAD   1983   -0.0018   1116   HFLLLKYRAREPYTK   1985   -0.0018   1116   HFLLLKYRAREPYTK   1985   -0.0017   1117   H.YTRATCLGLSYDG   1988   -0.0017   1118   H.YTRATCLGLSYDG   1988   -0.0017   1118   H.YTRATCLGLSYDG   1988   -0.0011   1118   H.YTRATCLGLSYDG   1995   -0.0011   1118   H.YTRATCLGLSYDG   1995   -0.0011   1118   H.YTRATCLGLSYDG   1995   -0.0011   1118   H.YTRATCLGLSYDG   1995   -0.0011   1118   H.YTRATCLGRYDR   1995   -0.0011   1118   H.YTRATCGRYDR   1995   199	FSKASSS	2109	FFPVIFSKASSSLQL	1978					
2111   GEALGLYGAQAPATE   1980   0.0025	SKASSSL	2110	<b>FPVIFSKASSSLQLV</b>	1979					
2112   GHLYIFATCLGLSYD   1981   0.0025	<b>JLVGAQAP</b>	2111	GEALGLVGAQAPATE	1980					
2113   GIELMEVDROCHLYT   1982	FATCLGL	2112	GHLYIFATCLGLSYD	1861		0.0025			
2114   GLLIIVLAIIAREGD   1983   0.0018	MEVDPIGH	2113	GIELMEVDPIGHLYI	1982					
2115         GPHISYPPLHEWUR         1985         -0.0018           2116         HFLLKYRAREPUTK         1985         -0.0018           2117         HATPATCLGLSYDG         1986         -0.0013           2118         IELMEDPRIGHLYIF         1987         -0.0013           2120         KAEMLGSVVGNRQYF         1988         -0.0011           2121         KAGLIJIVAINARE         1990         -0.0011           2122         LGEVPAAESPDPQS         1993         -0.0011           2123         LGEVPAAESPDPQS         1993         -0.0018           2124         LIGVGAQARATEQE         1993         -0.0018           2125         LIIVAAINARGOCA         1995         -0.0018           2126         LIIVAAINARGOCA         1995         -0.0018           2127         LLKYRAREPYIKAEM         1999         -0.0018           2128         LQLVFIGEMEVDPI         1997         -0.0018           2129         LUKYRAREPYIKAEM         1998         -0.0011           2131         NQIMPKAGLLIVIA         2001         -0.0024         0.0560           2132         LQLYFIGELMEVDPIG         2002         -0.0024         0.0560           2133         RYFICHELMEVDPIG	A.AIIAR	2114	GLUNIAHAREGD	1983					
HELLKYRAREPYTK   1985   1986	VPPI HFW	2115	GPHISYPPI HFWVI R	1984		\$1000			
H.YIFATCLGLSYP   1985   1985   1985   1986   1986   1986   1987   1987   1988	KVDADED	2116	HEI I I KVD A DEDVITY	1085					
March   Marc	O LO LOTA	2112	III VIEATOI OI SADO	1000					
119   IELMEVDPIGHLYIF   1987   0.0130   0.0027	AICLULS	2117	FL TIFAICLGLSTDU	0861					
2119   IGHLYIFATCLGLSY   1988   1920   1920   IGHLYIFATCLGLSY   1989   1920   1921   IGHLYIFATCLGLSY   1989   1991   1922   IGEVPAAESPDPROS   1992   1993   1993   1993   1993   1994   1994   1994   1995	EVDPIGHL	8117	IELMEVDPIGHLYIF	1987	0.0130	0.0027	0.0130		
March   Marc	/IFATCLG	2119	IGHLYIFATCLGLSY	_					
2121   KAGLJIVLAIIARE   1990   -0.0011	<b>LGSVVGNW</b>	2120	KAEMLGSVVGNWQYF	_					
2122 KKLLTQHFVQENYLE 1991 2123 LGEVPAAESPDPQS 1992 2124 LGLVGAPATEQE 1993 2125 LGLVGAPATEQE 1993 2126 LLINAIAREGDC 1995 2127 LLIVAIAREGDC 1996 2127 LLKYRAREPVTKAEM 1996 2129 LLVFOIELMEVDPI 1997 0.0004 0.0970 2129 LVEVTLGEVPAAESP 1998 -0.0011 NQIMPKAGLILIVA 1999 0.0560 2130 NQIMPKAGLILIVA 1999 0.0560 2131 NWQYFFVIFSKASS 2000 0.0560 2132 PVIFSKASSLQLVF 2003 0.0560 2134 QAALSKVAELVHFL 2003 2134 QAALSKVAELVHFL 2003 2135 QYFFVIFSKASSL 2006 2136 QLYGGIELMEVDPIG 2005 2137 QYFFVIFSKASSSL 2006 2138 RALVETSYVKVLHHM 2007 2140 VAGIELMEVDPIGH 2008 2141 VAGIELMEVDPIGH 2013 2142 VAGIELMEVDPIGH 2013 2144 VAGNWQYFFVIFSKA 2013 2145 VEGIELMEVDFIGHL 2013 2145 VEGIELMEVDFIGHL 2013 2146 VAGNWQYFFVIFSKA 2013 2147 VPPLHEWVLRGEE 2148 VRQVPGSDPACYFFL 2017 2149 VYRVH HHMVKLRGEE 2149 VYRVH HHMVKLRGEE 2144 VRQVPGSDPACYFFL 2017	IIVLAII	2121	KAGLLIIVLAIIARE	0661		-0.0011			
2123 LGEVPAAESPDPQS 1992 2124 LGLVGAQAPATEQE 1993 2125 LLIVLAIIAREGDCA 1994 2126 LLIIVLAIIAREGDCC 1995 2127 LLIKYRAREPUTKEM 1996 2128 LQLVFGIELMEVDPI 1997 0.0004 0.0970 2128 LQLVFGIELMEVDPI 1997 0.0001 0.0970 2129 LVEVTLGEVPAAESP 1998 -0.0011 2131 NWQYFFPVIFSKASS 2000 -0.0003 0.0560 2132 PVIFSKASSLQLVF 2001 0.0890 2134 QAALSRKVAELVHFL 2003 2134 QAALSRKVAELVHFL 2003 2134 QAALSRKVAELVHFL 2005 2135 QAFFVIFSKASSSL 2006 2140 QAFFVIFSKASSSL 2006 2140 VAFGIELMEVDPIG 2005 2136 QLVFGIELMEVDPIG 2005 2137 QYFFPVIFSKASSSL 2006 2140 SSTLVEVTLGEVPAA 2009 2141 VAELVHFLLKYRAR 2011 2141 VABPLAFFKRA 2011 2142 VGPIELMEVDPIGHL 2012 2143 VGPIELMEVDFIGHL 2013 2144 VGNWQYFFPVIFSKA 2013 2145 VFGIELMEVTREGRED 2014 2145 VFGIELMEVTREGRED 2014 2146 VFGIELMEVTREGRED 2014 2147 YPPLHEWVLREGRED 2017 2149 VVKN HAMVKRGGEP 2017	OHEVOEN	2122	KKI I TOHEVOENYI E	1661					
12.5   LGLVGAQAPATEQE   1993   1993   1994   1995	A ECDID	2123	1 CEVBA A ECDIBBOO	1001					
125   LULYARIAREQE   1995   1994   1995	AALSI DI	21.0	101 VOADATTTOT	7661					
125   LINVAIIAREGIXA   1994   -0.0018   126   LILKYRAREPVIREM   1995   -0.0018   127   LILKYRAREPVIREM   1996   -0.0010   127   LILKYRAREPVIREM   1996   -0.0010   127   LILKYRAREPVIREM   1997   -0.0004   0.0970   129   129   -0.0011   1999   -0.0001   129   129   -0.0011   129   -0.0	ייייייייייייייייייייייייייייייייייייייי	1717	LOLY CACAFAILE CE	1993					
212b         LLIIVLAIIAREGDC         1995         -0.0018           2127         LLIKYRAEEPVTKAEM         1996         -0.0011           2128         LQLVGIELMEVDPI         1997         0.0004         0.0970           2129         LVEYTIGEVPAAESP         1998         -0.0011           2130         LVEYTIGEVPAAESP         1999         -0.0003         0.0560           2131         PVEYTIGEVPAAESP         2000         -0.0003         0.0560           2131         PVIFFPOLESEGAAL         2001         0.0240         0.0890           2132         PVIFFSKASSLQLVF         2002         0.0240         0.0890           2133         PVIFFSKASSLQLVF         2003         0.0240         0.0890           QHYQENYLEYRQVP         2003         2004         0.0890           QHYQEILMEVDPIG         2005         2005         2005           2134         QYFFPVIFSKASSL         2006         2007           2138         RALVETSYKVLHHM         2007         2010           2143         VAELVHLLLKYRAR         2011         VAELVHLLLKYRAR           2143         VAELWGPRALVESYR         2011         2014           2144         VGNWQYFFPVIFSKA         2014	AllAKEG	C717	LIIVLAIIAKEGDCA	461					
2127         LLKYRAREPVTKAEM         1996           2128         LQLVFGIELMEVDPI         1997         0.0004         0.0970           2129         LQLVFGIELMEVDPI         1998         -0.0011           2130         NQIMPKAGLLIIVLA         1999         -0.0003         0.0560           2131         NWQYFFPVIFSKASS         2000         -0.0003         0.0560           2132         PVIFSKASSSLQLVF         2003         0.0240         0.0890           2134         QAALSRKVAELVHFL         2003         0.0240         0.0890           2135         QHFVQENYLEYRQVP         2004         0.0240         0.0890           QHFVGELMEVDPIG         2003         2005         0.0240         0.0890           QHFVGELMEVDPIG         2003         2005         0.0240         0.0890           QHFVGELMEVDPIG         2003         2005         0.0240         0.0890           QHFVQENYLERARSSL         2006         2006         2006         0.0240         0.0890           2136         QYFFPVIFSKASSSL         2006         2006         2010         0.0240         0.0890           2140         VFELWERTENTERFORD         2011         2014         VFELWGPRALVESKA         2013	LAIIARE	2126	LLIIVLAIIAREGDC	1995		-0.0018			
2128         LQLVFGIELMEVDPI         1997         0.0004         0.0970           2129         LVEVTLGEVPAAESP         1998         -0.0001           2130         NOMPKAGLLINLA         1999         -0.0001           2131         NWQYFFPVIFSKASS         2000         -0.0003         0.0560           2132         PSTFPDLESEFQAAL         2001         -0.0003         0.0560           2133         PVIFSRASSSLQLVF         2002         0.0240         0.0890           2134         QALSRKVAELVHFL         2003         0.0240         0.0890           QLYGIELMEVDPIG         2003         2004         0.0890           QLYGIELMEVDPIG         2005         2005         2005           2137         QYFFPVIFSKASSSL         2005         2007           2138         RALVETSVKVLHHM         2007         2007           2140         SSTLVEVTLGEVPAA         2010         2011           2141         VAELVHFLLKYRAR         2011         2014           2143         VFGIELMEVDPIGHL         2013         2014           2144         VGNWQYFFPVIFSKA         2015         2014           2145         VFFLWGPRALVEGRED         2014         VRELWGRALVEGRED         2014	LAREPVTK	2127	LLKYRAREPVTKAEM	1996					
2129         LVEVTLGEVPAAESP         1998         -0.0011           2130         NQIMPKAGLLIIVLA         1999         -0.0003         0.0560           2131         NWQYFFPVIESKASS         2000         -0.0003         0.0560           2132         PNIFPDLESFQAAL         2001         0.0240         0.0890           2133         PVIFSKASSLQUFF         2003         0.0240         0.0890           2134         QAALSRKVAELHFL         2003         0.0240         0.0890           2135         QHFVQENYLEYRQVP         2004         2005         0.0240         0.0890           2136         QLVFGIELMEVDPIG         2005         2006         2006         2006           2137         QVFFPVIFSKASSSL         2006         2007         2007         2007           2138         RALVETSYKVKVLHHM         2007         2007         2010         2011           2140         SSTLVEVTLGEVPAA         2010         2011         2014         VAELVHFTLLKYRAR         2011           2143         VFGIELMEVDPIGHL         2012         2012         2014         VEFLWGPRALVESY         2015           2145         VFPLHEWVLREGEE         2016         2016         2016         2016	GIELMEV	2128	LOLVFGIELMEVDPI	1661	0.0004	0.0970	-0.0004		
2130 NQIMPKAGILINTA 1999 -0.0001	T.GEVPAA	2129	I VEVTI GEVPAAESP	8661					
131	DK AGI I II	2130	NOTABLE ACT 1 11/1 A	1000		11000			
2132 PSTFPDLESEFQAR 2001 5,000	FPVIECK	2131	NAVOVEEDVIECK A SC	0000	0000	0.0560	00000		
2133 PVIESKASSLQUVF 2001 2134 QAALSEKVARAL 2002 0.0240 0.0890 2135 QAFVQENYLEYRQVP 2003 2136 QLVGIELMEVDPIG 2005 2137 QYFFPVIESKASSSL 2006 2138 RALVETSYKALHHM 2007 2138 RALVETSYKALHHM 2007 2139 REPVTKAEMLGEVPAA 2009 2140 VAELVHFLLKYRAR 2010 2141 VAGIELMEVDPIGHL 2011 2143 VFGIELMEVDPIGHL 2011 2144 VGNWQYFFPVIESK 2011 2145 WELSVLEVFEGRED 2014 2145 WELSVLEVFEGRED 2014 2146 YFFLWGPRALVETSY 2015 2147 YPPLHEWVLREGEE 2017 2148 YRQVPGSDPACYFFL 2017	TI VILSE	2133	DETERMINE PORTON A	7007	-0.0003	0.000	0.770		
2133 FVIENCRASSLILLYF 2002 0.0240 0.0890 2134 QALLSKILVEL 2003 0.0240 0.0890 2135 QHEVQENYLEYRQP 2004 2136 QLVFGIELMEVDPIG 2005 2137 QYFFPVIFSKASSL 2006 2138 RALVETSYVKJLHIM 2007 2139 REPVTKABILGSVVG 2008 2140 VAELVHFLLLKYRAR 2010 2141 VAELVHFLLLKYRAR 2011 2142 VDPIGHLYTFATCLG 2011 2143 VFGIELMEVDPIGHL 2014 2144 VGNWQYFFPVIFSKA 2013 2145 WEELSVLEVFEGRED 2014 2146 YFFLWGPRALVETSY 2015 2147 YPPLHEWVLREGEE 2016 2148 YYRQVFGORP 2017	עבטבנע	7017	rairruceservaar	1007	0	0000			
2134 QAALSKKVAELVHFL 2135 QHFVQENYLEYRQVP 2136 QLYFGIELMEVDPIG 2137 QYFPPVIFSKASSL 2138 RALVETSYVKVLHHM 2139 REPVTKAEMLGSVVG 2140 SSTLVEVTLGEVPAA 2141 VAELVHFLLKYRAR 2142 VDPIGHLYFATCLG 2143 VGGIELMEVDPIGHL 2144 VGNWQYFFPVIFSKA 2145 WEELSVLEVFGGRED 2146 YPPLHEWVLREGRED 2147 YPPLHEWVLREGRED 2148 YPPLHEWVLREGRED 2149 VVKVI HHMVRIGGPP 2149 VVKVI HHMVRIGGPP	KASSSLQ	2133	PVIFSKASSSLQLVF	2002	0.0240	0.0890	0.0038		
2135 QHFVQENYLEYRQVP 2136 QLYEGIELMEVDPIG 2137 QYFFPVIFSKASSIL 2138 RALVETSYVKVLHHM 2139 REPVIFKAEMLGSVVG 2140 SSTLVEVTLGEVPAA 2141 VAELVHFLLLKYRAR 2142 VAPIGHL MEVDPIGHL 2143 VGRIELMEVDPIGHL 2144 VGNWQYFFPVIFSKA 2145 WEELSVLEVFEGRED 2146 YFFLWGPRALVETSY 2147 YPPLHEWVLREGRED 2148 YYPLHEWVLREGRED 2149 VVKVI HHMVRIGGPP	RKVAELV	2134	QAALSRKVAELVHFL	2003					
2136 QLVFGIELMEVDPIG 2137 QYFFPVIFSKLASSL 2138 RALVETSYVKVLHHM 2139 REPVTKAEMLGSVVG 2140 SSTLVEVTLGEVPAA 2141 VAELVHFLLLKYRAR 2142 VDPIGHLYIFATCLG 2143 VFGIELMEVDPIGHL 2144 VGMWQYFFPVIFSKA 2145 WEELSVLEVFEGRED 2146 YPPLHEWVLREGRED 2147 YPPLHEWVLREGRED 2148 YRRQVPGSDPACYFFL 2149 VVKVI HHMVRIGGEP	<b>JENYLEYR</b>	2135	OHFVOENYLEYROVP	2004					
2137 QYFFPVIFSKASSL 2138 RALVETSYVKVLHHM 2139 REPVTKAEMLGSVVG 2140 SSTLVEVTLGEVRAA 2141 VAELVHFLLLKYRAR 2142 VFGELMEVDPIGHL 2144 VGNWQYFFPVIFSKA 2145 WEELSVLEVFEGRED 2146 YPPLHEWVLREGRED 2147 YPPLHEWVLREGRED 2148 YRQVPGSDPACYFFL 2149 VVKVI HHMVRIGGRE	JEI MEVD	2136	OI VEGIEL MEVIPIG	2005					
2138 RALVETSYVKUHHM 2139 REPVTKAEMLGSVVG 2140 SSTLVEVTLGEVPAA 2141 VAELVHFLLLKYRAR 2142 VDPIGHLYFATCLG 2143 VDPIGHLYFATCLG 2144 VGNWQYFFPVIFSKA 2145 WEELSVLEVFGRED 2146 YFFLWGPRALVETSY 2147 YPPLHEWVLREGRED 2148 YYPLHEWVLREGRED 2149 VVKVI HHMVKIGGP	VIESKAS	2137	OVEFDVIECKASSSI	2005					
2139 KEDVEKALHIM 2140 SSTLVEVTLAEMGSVVG 2141 VAELVHFLLKYRAR 2141 VAELVHFLLKYRAR 2143 VDPIGHLYIFATCLG 2144 VGNWQYFFPVIFSKA 2145 WEELSVLEVFEGRED 2146 YEFLWGPRALVETSY 2147 YPPLHEWVLREGEE 2148 YRQVPGSDPACYFFL 2148 YRQVPGSDPACYFFL 2149 VVKVI HHMVRIGGE	VICTORYS	2120	DATA THE STANDARD THE	2007					
2139 KEPV I KABALLUSVVG 2140 SSTLVEVTLGEVPAA 2141 VAELVHFLLLKYRAR 2142 VPGIELMEVDPIGHL 2144 VGNWQYFFPVIFSKA 2145 WEELSVLEVFEGRED 2146 YPPLHEWVLREGEE 2147 YPPLHEWVLREGEE 2148 YRQVPGSDPACYFFL 2149 VYKV HTMVKISGEP	SISYVKVL	2138	KALVEISYVKVLHHM	7007					
2140 SSTLVEVTLGEVPAA 2141 VAELVHFLLLKYRAR 2142 VDPIGHLYFATCLG 2143 VGGELMEVDPIGHL 2144 VGNWQYFPVIFSKA 2145 WEELSVLEVFEGRED 2146 YPPLHEWVLREGRED 2147 YPPLHEWVLREGRED 2148 YRQVPGSDPACYFFL 2149 VYKVI HHMVKIGGP	KAEMLGS	6517	<b>REPVIKAEMLGSVVG</b>	2008					
2141 VAELVHFLLLKYRAR 2142 VDPIGHLYTRATCLG 2143 VGRIELMEVDPIGHL 2144 VGNWQYFFPVIFSKA 2145 WEELSVLEVFEGRED 2146 YEFLWGPRALVETSY 2147 YPPLHEWVLREGEE- 2148 YYRQVPGSDPACYFFL 2149 VVKVI HHMVRIGGP	/EVTLGEV	2140	SSTLVEVTLGEVPAA	5005					
2142 VDPIGHL.YIFATCLG 2143 VFGIELMEVDPIGHL 2144 VGNWQYFFPVIFSKA 2145 WEELSVLEVFEGRED 2146 YFFLWGPRALVETSY 2147 YPPLHEWVLREGEE- 2148 YRQVPGSDPACYFFL 2149 VYKVI HHMVRIGGP	/HFLLLKY	2141	VAELVHFLLLKYRAR	2010					
2143 VFGIELMEVDPIGHL 214 VGNWQYFFPVIFSKA 2145 WEELSVLEVFEGRED 2146 YEFLWGPRALVETSY 2147 YPPLHEWVLREGEE- 2148 YNKVH HAMVNISGEP	HLYIFAT	2142	VDPIGHLYIFATCLG	2011					
2144 VGNWQYFPVIFSKA 2145 WEELSVLEVFEGRED 2146 YEFLWGRALVETSY 2147 YPPLHEWYLREGEE- 2148 YRQVPGSDPACYFFL 2149 YVXVI HHMVKIGGP	LMEVDPI	2143	VEGIEL MEVIDPIGHI	2012					
2145 WEELSVIEWFERED 2146 YEFLWGPRALVETSY 2147 YPPLHEWVLREGEE- 2148 YRQVPGSDPACYEFL 2149 YVKV HHMVRIGGE	OVEEPVIE	2144	VGNWOVEEDVIESKA	2013					
2145 WEELS VLE YFEURED 2146 YEELWGPRALVETSY 2147 YPPLHEWVLREGEE- 2148 YRQVPGSDFACYEFL 2149 VVKVI HHMVKIGGP	ייי בייביי	34.5	ANCHE SILL STATE OF THE STATE O	5107					
2140 YELLWORKALVEISY 2147 YPPLHEWVLREGEE- 2148 YRQVPGSDPACYEL 2149 VVKVI HHMVKIGGP	VLEVFEG	2143	WEELSVLEVFEGKED	2014					
2147 YPPLHEWVLREGEE- 2148 YRQVPGSDPACYEFL 2149 VVKVI HHMVRIGGP	WGPRALVE	7140	YEFLWGPRALVEISY	2015					
2148 YRQVPGSDPACYEFL 2149 YVKVI HEMVKISGGP	TEWVLREG	2147	YPPLHEWVLREGEE-	2016					
2149 VVKVI HHMVKISGGP	GSDPACY	2148	YROVPGSDPACYEFL	2017					
	חודשעיעיני	2149	WWW HENWINGER	9100					

157 (deleted)

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		DR5w12										
		DR5w11										
		DR4w15 DR5w11										
		DR4w4										
		DR3	0.1400	0.0130	0.0033	0.0800	0.0660	0.0190	0.2000	0.0072	0.1500	0.0270
	ing Data	DR2w282										
	Mage 2 DR 3a Motif Peptides with Binding Data	DR2w281 DR2w282										
Table XXa A	Peptides	DRI										
Tabl	R 3a Motil	Position	183	220	100	96	210	208	249	191	245	188
	Mage 2 DJ	Exemplary SeqID Num	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
		Exemplary Sequence	CLGLSYDGLLGDNOV	EEKIWEELSMLEVFE	<b>FPDLESEFOAAISRK</b>	GPRMFPDLESEFOAA	IIAIEGDCAPEEKIW	LAIIAIEGDCAPEEK	MODLVOENYLEYROV	OLVFGIEVVEVVPIS	RKLLMODLVOENYLE	YDGLLGDNQVMPKTG
		Core SeqID Num	2150			2153						
		Core	LSYDGLLGD	IWEELSMLE	LESEFQAAI	MFPDLESEF	IEGDCAPEE	IAIEGDCAP	LVQENYLEY	FGIEVVEVV	LMQDLVQEN	LLGDNQVMP

ino Data
Table XXa A Maye 2 DR 3a Motif Pentides with Bindino Data

		l t Gui.	mm 2 6			•		
Core	Core SeqID Num	Exemplary Sequence	Exemplary SeqID Num	DR6w19	DR7	DR8w2	DR9	DRw
LSYDGLLGD	2150	CLGLSYDGLLGDNQV	2019					
IWEELSMLE	2151	EEKIWEELSMLEVFE	2020					
LESEFQAAI	2152	<b>FPDLESEFQAAISRK</b>	2021					
MFPDLESEF	2153	GPRMFPDLESEFQAA	2022					
IEGDCAPEE	2154	IIAIEGDCAPEEKIW	2023					
IAIEGDCAP	2155	LAIIAIEGDCAPEEK	2024					
LVQENYLEY	2156	MODLVQENYLEYRQV	2025					
FGIEVVEVV	2157	OLVFGIEVVEVVPIS	2026					
LMQDLVQEN	2158	RKLLMQDLVQENYLE	2027					
LLGDNQVMP	2159	YDGLLGDNQVMPKTG	2028					

	ding Data	R2w2B2 DR3 DR4w4 DR4w15 DR5w11 DR5w12	-0.0025 0.0058 0.0026 -0.0010 1.8000 -0.0055 -0.0008 0.0150 0.02800
Xa B	Mage 3 DR 3a Motif Peptides with Binding Data	DR2w2B1 DR2w2B2	0.0057 -0.0010
Table XXa B	<b>Motif Pept</b>	n DR1	0.0003
	3 DR 3a	Position	183 100 100 161 161 183 183
	Mag	Exemplary Sector Num	2029 2030 2031 2031 2033 2034 2035 2035
		Core SeqID Exemplary	CLGLSYDGILGDNQI EEKIWEELSVLEVFE FPDLESEFQAALSRK IELMEVOPIGHLYIF LAIIAREGDCAPEEK QLVFGIELMEVDPIG TQHFVQENYLEYRQV
		Core Seql	2160 2161 2162 2163 2164 2165 2166
		Core	LSYDGLLGD IWEELSVLE LESEFGAAL MEVDPIGHL IAREGDCAP FGIELMEVD FVQENYLEY

Core Sequence	Core SeqID Num	Exemplary Sequence	Exemplary SeqID Num	DR6w19	DR7	DR8w2	DR9	DRw53
LSYDGLLGD	2160	CLGLSYDGLLGDNOI	2029					
IWEELSVLE	2161	EEKIWEELSVLEVFE	2030					
LESEFOAAL	2162	<b>FPDLESEFQAALSRK</b>	2031					
MEVDPIGHL	2163	IELMEVDPIGHL YIF	2032	0.0130	0.0027	0.0130		
IAREGDCAP	2164	LAIIAREGDCAPEEK	2033					
FGIELMEVD	2165	QLVFGIELMEVDPIG	2034					
FVOENYLEY	2166	TOHFVQENYLEYRQV	2035					
LLGDNOIMP	2167	YDGLLGDNQIMPKAG	2036					

		DR5w11	
		DR4w15 DR5w11	
		DR4w4	
		DR3	0.0039 -0.0025 -0.0025
	ng Data	JR2w282	
	Mage 2 DR 3b Motif Peptides with Binding Datz	DRI DR2w281 DR2w282	
Cable XXb A	Peptides	DR1	
Tat	3b Motif	Position	106 1 292 286
	Mage 2 DR	Exemplary SeqID Num	2037 2038 2039 2040
		Exemplary Sequence	EFQAAISRKMVELVH MPLEQRSQHCKP TLKJGGEPHISYPPL VKVLHHTLKIGGEPH
		Core SeqID Num	2168 2169 2170 2171
		Core	AAISRKMVE MPLEQRSQH IGGEPHISY LHHTLKIGG

DR5w12

	Data
	Binding
<	s with
XXP	eptide
Table X	<b>Jotif P</b>
	R 3b N
	lage 2 DR
	Mag

Core         Core SeqID         Exemplary         Exemplary         DR6w19         DR7         DR8w2         DR9         DRw53           Sequence         Num         Sequence         SeqID Num         SeqID Num         DRW53           AAISRKMVE         2168         EFQAAISRKMVELVH         2037         PRWFGCRAG         2038           IGGEPHISY         2170         TLKIGGEPHISYPPL         2039         PRW54           LHHTLKIGG         2171         VKVLHHTLKIGGEPH         2040			I 7 2SRIAI	wage 4 Dr. 30 Mout reputes with Dilluing Data	chrines with	a gumuna i	ara		
2168 EFQAAISRKMVELVH 2169 MPLEQRSQHCKP 2170 TLKIGGEPHISYPPL 2171 VKVLHHTLKIGGEPH	Core Sequence	Core SeqID Num	Exemplary Sequence	Exemplary SeqID Num	DR6w19	DR7	DR8w2	DR9	DRw53
2169 MPLEÇESQHCKP 2170 TLKIGGEPHISYPPL 2171 VKVLHHTLKIGGEPH	AAISRKMVE	2168	<b>EFQAAISRKMVELVH</b>	2037					
2170 TLKIGGEPHISYPPL 2171 VKVLHHTLKIGGEPH	MPLEQRSQH	2169	MPLEQRSQHCKP	2038					
2171 VKVLHHTLKIGGEPH	IGGEPHISY	2170	TLKIGGEPHISYPPL	2039					
	LHHTLKIGG	2171	VKVLHHTLKIGGEPH	2040					

	ing Data
Table XXb B	Mage 3 DR 3b Motif Peptides with Binding

			Mage 3 DR 3b Motif Peptides with Binding Data	3b Motif Po	eptides w	ith Bindin	g Data					
Core Sequence	Core SeqID Num	Exemplary Sequence	Exemplary SeqID Num	Position	DR1	DR1 DR2w2B1 DR2w2B2	DR2w2B2	DR3	DR4w4	DR4w15	DR4w15 DR5w11	DRSw12
ILGDPKKLL	2112	EDSILGDPKKLLTQH	2041	237	0.0003	0.0003 -0.0006	-0.0010	0.6700	-0.0055		-0.0008	
AALSRKVAE	2173	<b>EFOAALSRKVAELVH</b>	2042	901				0.0027				
MPLEORSOH	2174	MPLEORSOHCKP	2043									

		Mage 5 DR 50 Motil Feptides With Binding Dati	our repuges	with Bindin	g Data			
Core	Core SeqID Num	Exemplary Sequence	Exemplary SeqID Num	DR6w19	DR7	DR8w2	DR9	DRw53
ILGDPKKLL	2172	EDSILGDPKKLLTQH	2041	0.0130	-0.0014	0.0029		
AALSRKVAE	2173	<b>EFOAALSRKVAELVH</b>	2042					
MPLEQRSQH	2174	MPLEQRSQHCKP	2043					

Table XXII. A2 supermotif analogs

		A Ö	A*0201 nM	A*0202 nM	A*0203 nM	A*0206 nM	A*6802 nM	Alleles
MAGE 3.112	KVAELVHFL	2214	69	29	14	168	17	5
MAGE3.112L2 9	KLAELVHFL	2215	20	0.9	5.9	12	400	5
6	KMAELVHFL	2216	24	6.7	7.7	56	586	5
6 6	KLAELVHFV	2217	14	13	22	15	73	5
6	<b>KMAELVHFV</b>	2218	76	17	46	39	170	5
MAGE3.220 9	KIWEELSVL	2219	333	391	2381	308	:	3
MAGE3.220L2V9 9	KLWEELSVV	2220	11	165	20	15	:	4

- indicates binding affinity =10,000nM.

## **Table XXIIA A01 Analog Peptides**

<u>Peptide</u>	AA	<u>Sequence</u>	SEQ ID NO:	<u>Source</u>	<u>A*0101 nM</u>
52.0026	8	ATCLGLSY	2221	MAGE3.179	227.3
52.013	11	<b>VVEVVPISHLY</b>	2222	MAGE2.166	125
52.0132	11	TMNYPLWSQSY	2223	MAGE3.74	301.2
52.0133	11	LMEVDPIGHLY	2224	MAGE3.166	3.3
57.0003	8	VTDLGLSY	2225	MAGE2.179.D3	2.7
57.0029	9	STFSTTINY	2226	MAGE2.69.T2	490.2
57.003	9	MTDLVQENY	2227	MAGE2.247.T2	8.0
57.0031	9	STLPTTMNY	2228	MAGE3.69.T2	58.1
57.0032	9	GTVVGNWQY	2229	MAGE3.137.T2	36.2
57.0033	9	ETDPIGHLY	2230	MAGE3.168.T2	0.7
57.0034	9	ITGGPHISY	2231	MAGE3.293.T2	36.2
57.0119	10	ATSFSTTINY	2232	MAGE2.68.T2	454.5
57.012	10	ASDFSTTINY	2233	MAGE2.68.D3	25
57.0121	10	LTQDLVQENY	2234	MAGE2.246.T2	58.1
57.0122	10	ATSLPTTMNY	2235	MAGE3.68.T2	208.3
57.0123	10	ASDLPTTMNY	2236	MAGE3.68.D3	2.6
57.0124	10	LTDHFVQENY	2237	MAGE3.246.D3	2.3

Table XXIIB A03 Analog Peptides

A3 XRN 3			က	ß	က	5	_	က	က	ß	က
4*6801.nM 5.7	6.7	14.5	61.5	26.7	1.7	0.5	156.9	30.8	15.4	13.8	42.1
*3301 nM /	87.9	432.8	-58000	93.5	783.8	13.2	580	-290000	1160	32.2	2989.7
A*3101 nM A 3333.3	62.1	720	0006	236.8	2769.2	9	620.7	12857.1	128.6	94.7	857.1
A*1101.nM A*3 8.2	6.3	76.9	96.8	375	က	2.6	1538.5	62.5	171.4	375	103.4
A*0301 nM 6	57.9	261.9	305.6	440	24.4	35.5	687.5	392.9	36666.7	117	42.3
Source MAGE2.69.V2K9	MAGE2.69.V2R9	MAGE2.73.V2	MAGE2.73.V2K9	MAGE2/3.116.R9	MAGE3.138.V2	MAGE3.138.V2R9	MAGE2.237.R8	MAGE2.277.V2	MAGE2.277.V2R9	MAGE2.299.V2	MAGE2.299.V2K9
SEQ ID NO: 2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249
Sequence SVFSTTINK	SVFSTTINR	TVINYTLWR	TVINYTLWK	LVHFLLLKR	YVFPVIFSK	YVFPVIFSR	SVFAHPRR	AVIETSYVK	AVIETSYVR	IVYPPLHER	IVYPPLHEK
<b>₩</b> 6	တ	တ	တ	თ	တ	တ	∞	တ	တ	တ	6
Peptide 1371.63	1371.64	1371.65	1371.66	1371.68	1371.69	1371.7	1371.71	1371.72	1371.73	1371.74	1371.75

## **Table XXIIC A24 Analog Peptides**

<u>Peptide</u>	AA	Sequence	SEQ ID NO:	Source	A*2401 nM
52.0072	8	LWGPRALI	2250	MAGE2.272	100
52.0073	8	QYFFPVIF	2251	MAGE3.144	100
52.0078	8	SYPPLHEW	2252	MAGE3.300	285.7
52.0102	10	SYPPLHEWVL	2253	MAGE3.300	20.3
52.0166	11	SFSTTINYTLW	2254	MAGE2.70	428.6
52.0167	11	IFSKASEYLQL	2255	MAGE2.150	126.3
52.017	11	IFSKASSSLQL	2256	MAGE3.150	131.9
52.0172	11	<b>IWEELSVLEVF</b>	2257	MAGE3.221	461.5
57.006	9	MYPDLESEF	2258	MAGE2.97.Y2	52.2
57.0061	9	KYVELVHFF	2259	MAGE2.112.Y2F9	7.1
57.0062	9	IYSKASEYF	2260	MAGE2.150.Y2F9	14.6
57.0063	9	EYLQLVFGF	2261	MAGE2.156.F9	4
57.0064	9	VYPKTGLLF	2262	MAGE2.195.Y2F9	5.5
57.0065	9	TYPDLESEF	2263	MAGE3.97.Y2	218.2
57.0066	9	NYQYFFPVF	2264	MAGE3.142.Y2F9	3.4
57.0067	9	IYSKASSSF	2265	MAGE3.150.Y2F9	375
57.0068	9	IYPKAGLLF	2266	MAGE3.195.Y2F9	9.2
57.0084	10	SYSTTINYTF	2267	MAGE2.70.Y2F10	14.8
57.0085	10	LYILVTCLGF	2268	MAGE2.175.F10	17.6
57.0086	10	VYPKTGLLIF	2269	MAGE2.195.Y2F10	2.9
57.0087	10	<b>EYLWGPRALF</b>	2270	MAGE2.270.Y2F10	10
57.0088	10	SYVKVLHHTF	2271	MAGE2.282.F10	34.3
57.009	10	NYQYFFPVIF	2272	MAGE3.142.Y2	22.6
57.0092	10	LYIFATCLGF	2273	MAGE3.175.F10	10
57.0093	10	IYPKAGLLIF	2274	MAGE3.195.Y2F10	1.2
57.0095	10	SYPPLHEWVF	2275	MAGE3.300.F10	5.5

Table XXIII. Immunogenicity of A2 supermotif peptides

Source	AA	Sequence	SEQ ID NO:	A*0201 nM	A*0202 nM	A*0203 nM	A*0206 nM	A*6802 nM	No. A2 Alleles Crossbound	CTL Wild-type <sup>1</sup>	CTL
MAGE2.112	6	KMVELVHFL	2276	8.6	25	17	123	2353	4	1/1	0/1
MAGE2.112	01	KMVELVHFLL	2277	23	39	127	9.0	2667	4	1/1	0/1
MAGE2.112	11	KMVELVHFLLL	2278	5.0	45	63	109	7692	4	1/1	0/1
MAGE2.153	6	KASEYLQLV	2279	152	911	17	185	4878	4	2/4	0/2
MAGE2.157	10	YLQLVFGIEV	2280	20	165	345	370	9302	4	3/3	1/3
MAGE2.160	10	LVFGIEVVEV	2281	357	20	43	28	8.0	5	4/4	0/3
MAGE3.112	6	KVAELVHFL	2282	89	53	14	168	11	5	3/4	3/4
MAGE3.112	10	KVAELVHFLL	2283	54	36	217	206	11	5	0/1	0/1
MAGE3.159	11	QLVFGIELMEV	2284	7.9	74	217	185	267	5	3/3	1/32
MAGE3.160	10	LVFGIELMEV	2285	29	20	7.7	28	14	5	4/4	1/42
MAGE3.195	11	IMPKAGLLIIV	2286	20	226	14	9/1	ຕຸ	4	3/4	0/3
<b>MAGE3.220</b>	6	KIWEELSVL	2287	357	391	2381	308	;	3	3/4	0/3
MAGE3.271	6	FLWGPRALV	2288	31	43	14	336	40	ς,	4/4	2/4

Indicates the number of donors positive over the total number of donors tested.
 A positive result was seen after the second restim.
 - indicates binding affinity =10,000nM.

Table XXIV. MHC-peptide binding assays: cell lines and radiolabeled ligands.

A. Class	A. Class I binding assays	ssays				
			•	Rac	Radiolabeled peptide	
Species	Antigen	Allele	Cell line	Source	Sequence	SEQ ID NO:
Human	A1	A*0101	Steinlin	Hu. J chain 102-110	YTAVVPLVY	2289
	A2	A*0201	ኢ	HBVc 18-27 F6->Y	FLPSDYFPSV	2290
	A2	A*0202	P815 (transfected)	HBVc 18-27 F6->Y	FLPSDYFPSV	2291
	A2	A*0203	FUN	HBVc 18-27 F6->Y	FLPSDYFPSV	2292
	A2	A*0206	CLA	HBVc 18-27 F6->Y	FLPSDYFPSV	2293
	A2	A*0207	721.221 (transfected)	HBVc 18-27 F6->Y	FLPSDYFPSV	2294
	A3		GM3107	non-natural (A3CON1)	KVFPYALINK	2295
	A11		BVR	non-natural (A3CON1)	KVFPYALINK	2296
	A24	A*2402	KAS116	non-natural (A24CON1)	AYIDNYNKF	2297
	A31	A*3101	SPACH	non-natural (A3CON1)	KVFPYALINK	2298
	A33	A*3301	LWAGS	non-natural (A3CON1)	KVFPYALINK	2299
	A28/68	A*6801	CIR	HBVc 141-151 T7->Y	STLPETYVVRR	2300
	A28/68	A*6802	AMAI	HBV pol 646-654 C4->A	FTQAGYPAL	2301
	B7	B*0702	GM3107	A2 sigal seq. 5-13 (L7->Y)	APRTLVYLL	2302
	B8	B*0801	Steinlin	HIVgp 586-593 Y1->F, Q5->Y	FLKDYQLL	2303
	B27	B*2705	LG2	R 60s	FRYNGLIHR	2304
	B35	B*3501	CIR, BVR	non-natural (B35CON2)	FPFKYAAAF	2305
	B35	B*3502	TISI	non-natural (B35CON2)	FPFKYAAAF	2306
	B35	B*3503	EHM	non-natural (B35CON2)	FPFKYAAAF	2307
	B44	B*4403	PITOUT	EF-1 G6->Y	AEMGKYSFY	2308
	B51		KAS116	non-natural (B35CON2)	FPFKYAAAF	2309
	B53	B*5301	AMAI	non-natural (B35CON2)	FPFKYAAAF	2310
	B54	B*5401	KT3	non-natural (B35CON2)	FPFKYAAAF	2311
	Cw4	Cw*0401	CIR	non-natural (C4CON1)	QYDDAVYKL	2312
	Cw6	Cw*0602	721.221 transfected	non-natural (C6CON1)	YRHDGGNVL	2313
	Cw7	Cw*0702	721.221 transfected	non-natural (C6CON1)	YRHDGGNVL	2314
Mouse	Dp		EL4	Adenovirus E1A P7->Y	SGPSNTYPEI	2315
	Κ		ELA	VSV NP 52-59	RGYVFQGL	2316
	Ωg		P815	HIV-IIIB ENV G4->Y	RGPYRAFVTI	2317
	P <sub>Y</sub>		P815	non-natural (KdCON1)	KFNPMKTYI	2318
	Гф		P815	HBVs 28-39	IPQSLDSYWTSL	2319

B. Class II binding assays

				Radiolabeled peptide	
Antigen	Allele	Cell line	Source	Sequence	SEQ ID NO:
	DRB1*0101	TC7	HA Y307-319	YPKYVKQNTLKLAT	2320
	DRB1*1501	L466.1	MBP 88-102Y	VVHFFKNIVTPRTPPY	2321
	DRB1*1601	L242.5	non-natural (760.16)	YAAFAAAKTAAAFA	2322
	DRB1*0301	MAT	MT 65kD Y3-13	YKTIAFDEEARR	2323
	DRB1*0401	Preiss	non-natural (717.01)	YARFQSQTTLKQKT	2324
	DRB1*0402	YAR	non-natural (717.10)	YARFQRQTTLKAAA	2325
	DRB1*0404	BIN 40	non-natural (717.01)	YARFQSQTTLKQKT	2326
DR4w15	DRB1*0405	KT3	non-natural (717.01)	YARFQSQTTLKQKT	2327
	DRB1*0701	Pitout	Tet. tox. 830-843	QYIKANSKFIGITE	2328
	DRB1*0802	OLL	Tet. tox. 830-843	QYIKANSKFIGITE	2329
	DRB1*0803	LUY	Tet. tox. 830-843	QYIKANSKFIGITE	2330
	DRB1*0901	HID	Tet. tox. 830-843	QYIKANSKFIGITE	2331
	DRB1*1101	Sweig	Tet. tox. 830-843	QYIKANSKFIGITE	2332
	DRB1*1201	Herluf	unknown eluted peptide	EALIHQLKINPYVLS	2333
	DRB1*1302	H0301	Tet. tox. 830-843 S->A	QYIKANAKFIGITE	2334
	DRB5*0101	GM3107 or L416.3	Tet. tox. 830-843	QYIKANAKFIGITE	2335
	DRB5*0201	L255.1	HA 307-319	PKYVKQNTLKLAT	2336
	DRB3*0101	MAT	Tet. tox. 830-843	NGQIGNDPNRDIL	2337
	DRB4*0101	L257.6	non-natural (717.01)	YARFQSQTTLKQKT	2338
	1QA1*0301/DQB1*030	PF	non-natural (ROIV)	<b>УАНААНААНААНААН</b>	2339
		DB27.4	non-natural (ROIV)	<b>УАНААНААНААНАА</b>	2340
		A20	non-natural (ROIV)	ҮАНААНААНААНАА	2341
		CH-12	HEL 46-61	YNTDGSTDYGILQINSR	2342
		LS102.9	non-natural (ROIV)	ҮАНААНААНААНАА	2343
		91.7	non-natural (ROIV)	ҮАНААНААНААНАА	2344
		A20	Lambda repressor 12-26	YLEDARRKKAIYEKKK	2345
		CH-12	Lambda repressor 12-26	YLEDARRKKAIYEKKK	2346

Table XXVI. Crossbinding data A2 supermotif peptides

Source	AA	Sequence	S 0 S 0 S	A*0201 nM	A*0202 nM	A*0203 nM	A*0206 nM	A*6802 nM	No. A2 Alleles Crossbound
MAGE2.112	6	KMVELVHFL	2347	38	15	9.1	49	364	5
MAGE2.112	10	KMVELVHFLL	2348	23	39	127	0.6	2667	4
MAGE2.112	11	KMVELVHFLLL	2349	5.0	45	63	109	7692	4
MAGE2.153	6	KASEYLQLV	2350	152	116	17	185	4878	4
MAGE2.157	10	YLQLVFGIEV	2351	20	165	345	370	9302	4
MAGE2.160	10	LVFGIEVVEV	2352	357	21	44	59	8.0	\$
MAGE2.220	6	KIWEELSML	2353	167	642	175	53	:	3
MAGE2.271	6	FLWGPRALI	2354	238	96	137	1542	95	4
MAGE2.277	10	ALIETSYVKV	2355	200	729	125	1947	3077	2
MAGE2/3.44	10	TLVEVTLGEV	2356	<i>L</i> 9	39	4.3	218	33	\$
MAGE3.112	6	KVAELVHFL	2357	89	53	14	168	17	S
MAGE3.112	10	KVAELVHFLL	2358	24	36	217	206	11	S
MAGE3.159	11	QLVFGIELMEV	2359	7.9	74	217	185	267	\$
MAGE3.160	10	LVFGIELMEV	2360	53	20	7.7	53	14	\$
MAGE3.174	11	HLYIFATCLGL	2361	99	741	692	:	4494	
MAGE3.176	6	YIFATCLGL	2362	185	45	37	1028	222	4
MAGE3.195	Ξ	IMPKAGLLIIV	2363	70	226	15	176	ł	. 4
MAGE3.220	6	KIWEELSVL	2364	333	. 391	2381	308	ŧ	3
MAGE3.271	6	FLWGPRALV	2365	31	43	14	336	40	5

-- indicates binding affinity =10,000nM.

Table XXVII. Immunogenicity of A2 supermotif peptides

Source	AA	Sequence	SEQ ID NO:	A*0201 nM	A*0202 nM	A*0203 nM	A*0206 nM	A*6802 nM	No. A2 Alleles Crossbound	CTL Wild-type	CTL
MAGE2.112	6	KMVELVHFL	2366	8.6	25	17	123	2353	4	1/1	0/1
MAGE2.112	10	KMVELVHFLL	2367	23	39	127	9.0	2667	4	1/1	0/1
MAGE2.112	Π	KMVELVHFLLL	2368	5.0	45	63	109	7692	4	1/1	0/1
MAGE2.153	6	KASEYLQLV	2369	152	116	17	185	4878	4	2/4	0/2
MAGE2.157	10	YLQLVFGIEV	2370	20	165	345	370	9302	4	3/3	1/3
MAGE2.160	10	LVFGIEVVEV	2371	357	20	43	28	8.0	5	4/4	0/3
MAGE3.112	6	KVAELVHFL	2372	89	53	14	168	17	5	3/4	3/4
MAGE3.112	10	KVAELVHFLL	2373	54	36	217	206	11	S	0/1	0/1
MAGE3.159	=	QLVFGIELMEV	2374	7.9	74	217	185	267	5	3/3	1/32
MAGE3.160	10	LVFGIELMEV	2375	59	20	7.7	28	14	5	4/4	1/4²
MAGE3.195	11	IMPKAGLLIIV	2376	20	226	14	176	۱ 3	4	3/4	0/3
MAGE3.220	6	KIWEELSVL	2377	357	391	2381	308	:	3	3/4	0/3
MAGE3.271	6	FLWGPRALV	2378	31	43	14	336	40	5	4/4	2/4
											-

Indicates the number of donors positive over the total number of donors tested.
 A positive result was seen after the second restim.
 - indicates binding affinity =10,000nM.

Table XXVIII. DR supertype primary binding

Peptide	DR147 Algo Sum	Sequence	SEQ ID NO:	Source	DR1 nM	DR4w4 nM	DR7 nM	DR147 Cross- binding
39.0282	2	LGEVPAADSPSPPHS	2379	MAGE2.50				0
39.0283	3	ESEFQAAISRKMVEL	2380	MAGE2.102	4.2	28 ļ	49	3
39.0284	2	GIEVVEVVPISHLYI	2381	MAGE2.163	595	6429	278	2
39.0285	2	DGLLGDNQVMPKTGL	2382	MAGE2.187				0
39.0286	2	NQVMPKTGLLIIVLA	2383	MAGE2.193	2632			0
39.0287	2	KTGLLIIVLAIIAIE	2384	MAGE2.198	417	1216	862	2
39.0288	2	<b>TGLLIIVLAIIAIEG</b>	2385	MAGE2.199	6250			0
39.0291	2	GLLIIVLAIIAIEGD	2386	MAGE2.200	500			1
39.0292	3	LLIIVLAIIAIEGDC	2387	MAGE2.201	581	3750	1923	1
39.0293	2	LIIVLAIIAIEGDCA	2388	MAGE2.202	417	8824	2083	1
39.0294	2	<b>EPHISYPPLHERALR</b>	2389	MAGE2.296				0
39.0295	3	ALGLVGAQAPATEEQ	2390	MAGE2/3.22	152			1
39.0296	2	ESEFQAALSRKVAEL	2391	MAGE3.102	2.6	763	34	3
39.0297	2	NWQYFFPVIFSKASS	2392	MAGE3.142	46	409	446	3
39.0298	3	PVIFSKASSSLQLVF	2393	MAGE3.148	98	1875	281	2
39.0299	3	LQLVFGIELMEVDPI	2394	MAGE3.158	200		258	2
39.0300	3	GHLYIFATCLGLSYD	2395	MAGE3.173	455	4091		1
39.0301	2	DGLLGDNQIMPKAGL	2396	MAGE3.187				0
39.0302	2	NQIMPKAĞLLIIVLA	2397	MAGE3.193	114			1
39.0303	2	KAGLLIIVLAIIARE	2398	MAGE3.198	1163			0
39.0304	2	AGLLIIVLAIIAREG	2399	MAGE3.199	1111		>9615	0
39.0305	3	LLIIVLAIIAREGDC	2400	MAGE3.201	1923			0
39.0306	2	GPHISYPPLHEWVLR	2401	MAGE3.296	2273			0

<sup>--</sup> indicates binding affinity =10,000nM.

Table XXIX. DR supertype crossbinding

Peptide	Sequence	SEQ ID NO:	Source	DR1 nM	DR4w4 nM	DR7 nM	DR2w2 β1 nM	DR2w2 β2 nM	DR6w1 9 nM	DR5w1 1 nM	DR8w2 nM	DR 147 Cross- binding	Broad Binding (5/8)
39.0283	39.0283 ESEFQAAISRKMVEL	2402	MAGE2.102	4.2	281	49	147	20	522	741	1581	3	7
39.0284	39.0284 GIEVVEVVPISHLYI	2403	MAGE2.163	595	6459	278	1978	:	49	ł	5506	7	٣
39.0287	KTGLLIIVLAIIAIE	2404	MAGE2.198	417	1216	862	2460	;	2333	;	!	7	7
39.0296	<b>ESEFQAALSRKVAEL</b>	2405	MAGE3.102	5.6	763	34	53	18	7000	645	1140	3	9
39.0297	<b>NWQYFFPVIFSKASS</b>	2406	MAGE3.142	46	409	446	3033	<i>L</i> 99	1	308	223	8	9
39.0298	<b>PVIFSKASSSLQLVF</b>	2407	MAGE3.148	86	1875	281	535	:	146	:	1	7	4
39.0299	99.0299 LQLVFGIELMEVDPI	2408	MAGE3.158	200	ł	258	4550	ŀ	8750	:	ŀ	2	7

-- indicates binding affinity =10,000nM.

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## Table XXX. DR3 binding

Peptide	Sequence	SEQ ID NO:	Source	DR3 nM
39.0384	GPRMFPDLESEFQAA	2409	MAGE2.94	3371
39.0387	<b>FPDLESEFQAAISRK</b>	2410	MAGE2.98	
39.0388	EFQAAISRKMVELVH	2411	MAGE2.104	
39.0389	QLVFGIEVVEVVPIS	2412	MAGE2.159	
39.0390	CLGLSYDGLLGDNQV	2413	MAGE2.181	2143
39.0391	YDGLLGDNQVMPKTG	2414	MAGE2.186	
39.0392	LAIIAIEGDCAPEEK	2415	MAGE2.206	
39.0393	IIAIEGDCAPEEKIW	2416	MAGE2.208	4546
39.0394	EEKIWEELSMLEVFE	2417	MAGE2.218	
39.0395	RKLLMQDLVQENYLE	2418	MAGE2.243	2000
39.0396	MQDLVQENYLEYRQV	2419	MAGE2.247	1500
39.0397	VKVLHHTLKIGGEPH	2420	MAGE2.284	
39.0398	TLKIGGEPHISYPPL	2421	MAGE2.290	
39.0399	<b>FPDLESEFQAALSRK</b>	2422	MAGE3.98	
39.0400	<b>EFQAALSRKVAELVH</b>	2423	MAGE3.104	
39.0401	QLVFGIELMEVDPIG	2424	MAGE3.159	
39.0402	<b>IELMEVDPIGHLYIF</b>	2425	MAGE3.164	167
39.0403	CLGLSYDGLLGDNQI	2426	MAGE3.181	
39.0404	YDGLLGDNQIMPKAG	2427	MAGE3.186	
39.0405	LAIIAREGDCAPEEK	2428	MAGE3.206	
39.0406	EEKIWEELSVLEVFE	2429	MAGE3.218	
39.0407	EDSILGDPKKLLTQH	2430	MAGE3.235	448
39.0408	TQHFVQENYLEYRQV	2431	MAGE3.247	1071

<sup>--</sup> indicates binding affinity =10,000nM.

Table XXXI. HTL Candidates

t DR7 DR3 D	DR1 DR4w4 DR7 DR3 DR2w2 nM nM nM β1 nM	DR1 DR4w4 DR7 DR3 DR2w2 nM nM nM β1 nM	DRI DR4w4 DR7 DR3 DR2w2 nM nM nM pl1nM
Mn β1 nM ολ	nM nM nM β1 nM 742 281 49 42 281	nM nM nM β1 nM 742 281 49 42 281	nM nM nM β1 nM 742 281 49
DR7 nM	DR1 DR4w4 DR7 nM nM nM 4.2 281 49	DR1 DR4w4 DR7 nM nM nM 4.2 281 49	DR1 DR4w4 DR7 nM nM nM 4.2 281 49
	DRI DR4w4 nM nM 4.2 281	DR1 DR4w4 nM nM 4.2 281	DR1 DR4w4 nM nM 4.2 281
DR4w4 nM	DR1 InM NM 4.2	DR1 I	DR1 I
	_	_	Motif Source I DR sup MAGE2.102

-- indicates binding affinity =10,000nM.

Table IV. HLA Class I Standard Peptide Binding Affinity.

ALLELE	STANDARD	SEQUENCE	SEQ ID NO:	STANDARD
	PEPTIDE			BINDING
				AFFINITY (nM)
A*0101	944.02	YLEPAIAKY	2175	25
A*0201	941.01	FLPSDYFPSV	2176	5.0
A*0202	941.01	FLPSDYFPSV	, 2177	4.3
A*0203	941.01	FLPSDYFPSV	2178	10
A*0205	941.01	FLPSDYFPSV	2179	4.3
A*0206	941.01	FLPSDYFPSV	2180	3.7
A*0207	941.01	FLPSDYFPSV	2181	23
A*6802	1072.34	YVIKVSARV	2182	8.0
A*0301	941.12	KVFPYALINK	2183	11
A*1101	940.06	AVDLYHFLK	2184	6.0
A*3101	941.12	KVFPYALINK	2185	18
A*3301	1083.02	STLPETYVVRR	2186	29
A*6801	941.12	KVFPYALINK	2187	8.0
A*2402	979.02	AYIDNYNKF	2188	12
B*0702	1075.23	APRTLVYLL	2189	5.5
B*3501	1021.05	FPFKYAAAF	2190	7.2
B51	1021.05	FPFKYAAAF	2191	5.5
B*5301	1021.05	FPFKYAAAF	2192	9.3
B*5401	1021.05	FPFKYAAAF	2193	10

Table V. HLA Class II Standard Peptide Binding Affinity.

Allele	Nomenclature	Standard	Sequence	SEQ ID	Binding
		Peptide		NO: #	Affinity
					(nM)
DRB1*0101	DR1	515.01	PKYVKQNTLKLAT	2194	5.0
DRB1*0301	DR3	829.02	YKTIAFDEEARR	2195	300
DRB1*0401	DR4w4	515.01	PKYVKQNTLKLAT	2196	45
DRB1*0404	DR4w14	717.01	YARFQSQTTLKQKT	2197	50
DRB1*0405	DR4w15	717.01	YARFQSQTTLKQKT	2198	38
DRB1*0701	DR7	553.01	QYIKANSKFIGITE	2199	25
DRB1*0802	DR8w2	553.01	QYIKANSKFIGITE	2200	49
DRB1*0803	DR8w3	553.01	QYIKANSKFIGITE	2201	1600
DRB1*0901	DR9	553.01	QYIKANSKFIGITE	2202	75
DRB1*1101	DR5w11	553.01	QYIKANSKFIGITE	2203	20
DRB1*1201	DR5w12	1200.05	EALIHQLKINPYVLS	2204	298
DRB1*1302	DR6w19	650.22	QYIKANAKFIGITE	2205	3.5
DRB1*1501	DR2w2β1	507.02	GRTQDENPVVHFFKNI	2206	9.1
			VTPRTPPP	}	
DRB3*0101	DR52a	511	NGQIGNDPNRDIL	2207	470
DRB4*0101	DRw53	717.01	YARFQSQTTLKQKT	2208	58
DRB5*0101	DR2w2β2	553.01	QYIKANSKFIGITE	2209	20

The "Nomenclature" column lists the allelic designations used in Tables XIX and XX.

Table VII.A Mage 2, A01 Supermotif Peptides with Binding Data

SEQ ID NO.	- 0 m 4 w 0	~ ∞ ∘ 0 = 5 £ 4 £	2	242828	3 3 3 3 3 3 3 3 3 3 3 4 3 3 3 4 3 3 4 3 3 4 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4
A*0101	0.1700	0.0028	0.0450	0.0430	0.2000
No. of Amino Acids	6 20 8 2 0	== 0 2 0 = 0 2 :	:2∞=2⊙⊙⊙	223668 200669	o∞o∞□∞□
Position	154 68 249 224 115	137 229 168 263 263 63	292 292 112 246 250 178	148 260 96 69 72 138 73	149 139 139 166 169 178
Sequence	ASEYLQLVF ASSFSTTINY DLVQENYLEY ELSMLEVF ELVHFLLLKY ESVLRNCQDF	ESVLRNCQDFF EVEGREDSVF EVPISHLY FSTTINYTLW GSDPACYEF GSDPACYEF GSDPACYEFLW HSPQGASSF ILYTCLGLSV REPANVEL	KINGGEPHISY LVHFLLLKY LVHFLLLKY LVHGDLVQENY LVHGGEPHISY KMVELVHF LVHGGEPHISY KMVELVHF LVHGGEPHISY KMVELVHF LVHGGEPHISY LVGGEPHISY LV	PVIFSKASEY QVPGSDPACY RMFPDLESEF SSFSTTINY STTINYTLW SVLRNCQDF SVLRNCQDF TTINYTLW	VIESKASEY VLRNCQDF VLRNCQDF VTCLGLSY VVEVVPISHLY VVPISHLY YIL VTCLGLSY

Table VII.B
Mage 3 A01 Supermotif Peptides with Binding Data

Sequence	Position	No. of Amino Acids	A*0101	SEQ ID NO.
ACCI PTTMNY	89	0	2,6000	3.6
ASSSLOLVF	154	2 თ	2:0000	8 6
ATCLGLSY	179	· œ	01100	60 6
ELSVLEVF	224	) oc		÷ 4
EL VHFLLL KY	-12	, <u>c</u>		- 5
EMIGSVVGNW	134	2.5		7 7
EVDPIGHT V	168	2 σ	0000 81	ĵ <del>,</del> v
EVDPIGHLYIF	991	`=	00000	<b>*</b>
EVOENVI EV	350			44
GSDPACYEE	263	<b>^</b> 0		9 F
GSDPACYELW	263	`=		7 T
GSVGNWOY	137	: 0	0.0500	40
GSVVGNWOYF	137	01		20
GSVVGNWQYFF	137	=		513
HISYPPLHEW	298	01		52
ISGGPHISY	293	6	0.0370	53
ISYPPLHEW	299	6		54
KISGGPHISY	292	10	0.0011	55
KVAELVHF	112	∞		26
LLTQHFVQENY	245	=		57
LMEVDPIGHLY	991	=:	7.5000	58
LSRKVAELVHF	601	= :		20
LIQHIVQENY	246	<u>o</u> .	0.2600	99 :
LVHILLINY	9 :	<b>5</b> (		19
MLGSVGNW	135	o :		62
MLGSVGNWQY	135	= •		63
PIGHLYIF	171	∞ ;		4
PSIFPOLESEF	95	= '		65
PITMNYPLW	72	δ:		99
OVPOSUPACY	260	0 •		67
SLPLIMNY	2 %	∞ :		89
SLFIIMNYPLW	2 :	= 1		69
SSLPTTMNY	69	6	0.0550	20
SSSLQLVF	155	∞ :		71
STFPDLESEF	96	01		72
SVVGNWQY	138	œ ·		73
SVGNWQYF	<u>88</u>	6:		74
SVCGNWQYFF TANKER WEGGE	138	2:		22
THANKS W	7 4	<u> </u>	0.0830	9 F
VVCNWOVE	130	o		7.0
VVGNWOYFF	139	o 0		e g
YIFATCLGLSY	176	`=		80
	•	=		<b>&gt;</b>

	2
	Rinding
Table VIII A	Mage 2 A02 Supermotif with Rinding
	Изор

SEQ ID NO. A\*6802 A\*0206 A\*0201 No. of Amino Acids Position AAISRKMVEL AAISRKMVELV AIIAIEGDCA AIIAIEGDCA ALGLVGAQAA ALIETSYV ALIETSYV ALIETSYV ALIETSYV ALIETSYVKV ALIETSYVKV ALIETSYVKV ALIETSYVKV ALIETSYVKV ALIETSYVKV ALIETSYVKV ALIETSYVKV ODLESEFQAAI DLESEFQAAI DLESEFQAAI DLESEFQAAI DLESEFQAAI DLESEFQAAI DLESEFQAAI DLESEFQAAI DLESEFQAAI DLESEFQAAI EVGENYOLL EARGEALGL EARGEALGL EARGEALGL EVFCREDSY EVTLGEVPA EVTLG Table VIII A
Mage 2 A02 Supermotif with Binding Data

Sequence	Position	No. of Amino Acids	A*0201	A*0202	A*0203	A*0206	A*6802	SEQ ID NO.
GASSESTT	19	8			mark m			-
GASSECTTI	6 6	. 0						/71
C1510(5)	5 5	, 0						871
GIEV VEV V	3 5	o ;						129
OIEV EV Vri	<u>6</u>	0 (						130
GLEAKGEA	2 :	<b>∞</b>						131
GLEARGEAL	15	Φ						132
GLEARGEALGL	15	=						133
GLLGDNQV	188	∞						134
GLLGDNOVM	188	6						35
GLLIVLA	200	· oc						72.1
GILIVIAI	000	· o						200
GET IIVI AII	902	` ⊆						/ 5
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	001	) <u>-</u>						٥ <u>٠</u>
CICALO	183	- 0						95
GEST DOLL	<u> </u>	000						04.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>3</b>							14.
GLVGACAFA!	<del>5</del> 7 6	⊇;						142
HISTPLHEKA	867	= •						143
HLYILVICL	174	6						144
HLYILVTCLGL	174	=						145
HTLKIGGEPHI	289	=						146
IAIEGDCA	209	000						27.
HAIFGDCA	208	· <b>o</b>						÷ -
IIVI AIIA	203	\ ox						9 5
SIN MILE	303	° c						64.
יין אראווין אין אין אין אין אין אין אין אין אין א	507	<b>5</b> 6						20
וראוכנים.	/ 6	× c						151
IVLAIIAI	704	эю (						152
KAEMLESV	132	œ						153
KAEMLESVL	132	6						154
KASEYLQL	153	∞						155
KASEYLOLV	153	6						2 5
KIGGEPHI	292	∞						25
KIWEELSM	220	•						851
KIWEEI SMI	220	o						85.
KIWEEL SMI.EV	220	. =						661
V IOODI V	244	∵∝						25
KMVFI VHEI	= 12	• •						101
KMVELVHELI	1 :							701
KMVELVIEL I	2 :	2 =						<u>2</u> :
KTCI IIV	71.	<u> </u>						\$ ;
VIOLLIIV VIOLLIIV	86-	<b>0</b> (	-					165
NIGERIAL STATES	86	<b>&gt;</b>						991
KIGLLIVLA	86.	2:						167
KIGLLIIVLAI	861	= ‹						891
KVLHHTLKI	285	σ;						691
LAIIAIEGDCA	506	= •						170
LIETSYVKV	278	σ. S						121
LIEISYVKVL	8/7	2						172

	<b>√</b>	(	1/20		th Binding Data
=				Table VIII	Mage 2 A02 Supermotif wi

Sequence	Position	No. of Amino Acids	A*0201	A*0202	A*0203	A*0206	A*6802	SEQ ID NO.
LIIVLAII	202	8						173
LIIVLAIIA	202	6 5						174
L GDNOVA	707	2 ⊶						175
LLGDNQVMPKT	681	• =						176
LLIIVLAI	201	•						178
LUIVLAII	201	ο :						179
LLIIVLAIIAI	707	2 =						081
LLKYRAREPV	121	9						181
LLKYRAREPVT	121	:=						183
LLLKYRAREPV	120	=						184
LMQDLVQENYL	246	= <						185
LOLVEGIEV	288	ۍ <u>د</u>	•					981
LVEVTI GEV	45	2 σ						/81
LVEVTLGEVPA	54	`=						90
LVFGIEVV	091	; œ						60
LVFGIEVVEV	091	01						26
LVFGIEVVEVV	160	=						192
LVGAQAPA	25	∞						193
LVGAQAPAT	25	6						194
LVHFLLLKYRA	116	= :						195
MODILVQENYL	247	0 .						961
MVELVHFL	113	∞ 0						161
MVELVAFILI	2 =	۰ <u>-</u>						861
NOFFEGRA	<u>-</u> &	2 0						661
NOVMPKTGL	63	0						007
NOVMPKTGLL	193	. 01						200
NQVMPKTGLLI	193	=						203
PATEEQQT	31	∞						204
PATEEQQTA	31	6						205
PISHLYIL	171	∞ -						506
PISHLYILV	171	σ;						207
PISHLYILVI	Ε;	2 €						. 208
POGASSEST	S %	ъ <u>5</u>						209
POGA SCENTTI	e <b>x</b>	2 =						210
PVIFCK A SEVI	148	= =						217
PVTKAEML	129	. ∞						212
PVTKAEMLESV	139	=						214
QAAISRKM	901	<b>∞</b> (						215
QAAISKKMV	9 2	o =						216
OAPATEEOOT	39	- 0						717
. , , , , , , , , , , , , , , , , , , ,	ì	2						27

	Vc	A ith Binding Data
4		Table VIII.A Mage 2. A02 Supermotif with Binding Data

SEQ ID NO.	25 25 25 25 25 25 25 25 25 25 25 25 25 2
A*6802	
A*0206	
A*0203	
A*0202	
A*0201	
No. of Amino Acids	
Position	29 159 159 159 159 159 159 159 15
Sequence	QAPATEEQQTA QLYGIEV QLYGIEVV QLYGIEVV QLYGIEVV QUASSSST QQTASSSSTL QQVMPKTGLL QVMPKTGLL QVMPKTGLLI QVMPKTGLLI QVMPKTGLLI SVFAHPRKLL TASSSSTL TGEVPAA TLGEVPAA TLGEVPAA TLGEVPAA TLGEVPAA TLGEVPAA TLWEGOPFPV VMPKTGLLI VMPTGLU VM

	SEQ ID NO.	265 266 267 268 269 271 271 273 274
	A*6802	
	A*0206	
I.A with Binding Date	A*0203	
Table VIII.A Mage 2, A02 Supermotif with Binding Data	A*0202	
Mage	A*0201	
	No. of Amino Acids	26226821861
	Position	166 169 169 176 157 157 157 283 283
	Sequence	VVPISHL ISHLYI ISHLYIL ISHLYILV TYCLGI LVFGIEVV VLHFTI VLHFTL VLHFTL

inein	Lable VIII B Mage 3 A02 Supermotif with Binding Data	
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Sequence	Position	No. of Amino Acids	A*0201	A*0202	A*0203	A*0206	A*6802	SEQ ID NO.
AALSRKVA	107	00						276
AALSRKVAEL AALSRKVAELV	107	9 [1	0.0007					277 278
AASSSTL	38	° 000						279
AASSSTLV	38	ο:	0.0001					280
AASSSSILVEV AIIAREGDCA	38 207	- 0	0.0002					282
ALGLVGAQA	22	6	0.0030					283
ALGLVGAQAPA	22	= (	0000					284
ALSRKVAEL ALSRKVAELV	108	<b>o</b>	0.0050					282 286
ALVETSYV	277	. ∞						287
ALVETSYVKV	772	01	0.0024					288
ALVETSYVKVL	277 26	= =						289
ATCLGLSYDGL	87.1 179	==						291
ATEEQEAA	32	; <b>∞</b>						292
CAPEEKIWEEL	215	=						293
CLGLSYDGL	182	σ;	0.0004					294
CLGLSYDGLL	<u>∞</u> 8	٥.	0.0001					295
DLESEFÇA	3 5	o o	10000					267
DI ESEEDAAI	8 5	, <u>c</u>	0000					298
EAASSST	37	2 ∞						299
EAASSSTL	37	6	0.0001					300
EAASSSTLV	37	٥.	0.0001					301
EALGLYGA	7 7	o <u>S</u>	1000					202
EALGLYGAÇA FARGFA1 GI	17	20	0000					305
EARGEALGLV	: 1	. 0	0.0001					305
ELMEVDPI	165	∞						306
ELMEVDPIGHL	165	= •	0.0260					307
ELVHFLLL	115	∞ <u>S</u>						208
EQEAASSS I	35 52	2 =						309
ETSYVKVI	280	; ∞						311
ETSYVKVLHHM	280	=						. 312
EVDPIGHL	168	œ						313
EVDPIGHLYI	168	0 :	0.0002					314
EVFEGREDSI	229	0:	0.0001					315
EVEGREDAL FVTI GEVPA	677 7.4	<u>-</u>	0 0001					317
EVILGEVPAA	47	. 01	0.0001					318
FLLLKYRA	611	∵∞						319
FLWGPRAL	172	∞ .	•		;			320
FLWGPRALV	271	σ:	0.0820	0.0500	0.9100	0.0043	1.1000	321 323
FQAALSRKV	105	-0						323

Mage 3 A02 Su

SEQ ID NO.	325 325 326 327 327 327 327 327 327 327 327
A*6802	0.1500
A*0206	0.0029
A*0202 A*0203	0.1500
A*0202	0.0140
A*0201	0.0001 0.0002 0.0003 0.0003 0.0003 0.0001 0.0001 0.0001 0.0002 0.0002 0.0002 0.0002 0.0003 0.0003 0.0001 0.0001 0.0001 0.0002 0.0002 0.0003 0.
No. of Amino Acids	2×02×0,=×0×02=×02=0==×0××02×02=×0×02=×0×0=×0=0
Position	200 200 200 200 200 200 200 200 200 200
Sequence	FQAALSRKVA GASSLPTTM GASSLPTTM GASSLPTTM GASSLPTTM GASSLPTTM GLEARGEAL GLEARGEALGL GLEARGEALGL GLEARGEALGL GLEARGEALGL GLINVLAII GLLIIVLAI GLLIIVLAI GLLIIVLAI GLUNGAQAPA GLUGAQAPA GLUGAQAPA GLUGAQAPA HLYIFATCL HLYIFATCL HLYIFATCL HLYIFATCL HLYIFATCL ILGDPKKLL ILGDPK

Table VIII B
Mage 3 A02 Supermotif with Binding Data

Introduction   1972   1975	Sequence	Position	No. of Amino Acids	A*0201	A*0202	A*0203	A*0206	A*6802	SEQ ID NO.
18   18   18   18   18   18   18   18	UIVLA!! JIVI AIIA	202	<b>∞</b> Φ	0.0008					372 575
201 98 11 201 10 000001 201 11 000001 202 11 10 000001 203 11 000001 203 11 000001 204 5 10 000001 205 206 11 000001 206 207 8 10 000001 207 8 10 000001 208 8 10 000001 208 8 10 000001 209 8	LGDNOIM	189	\ <b>0</b> 0						374
201 201 120 121 121 122 123 124 125 127 127 127 127 128 129 129 129 129 129 129 129 129	LGDNQIMPKA	189	=•						37.5
12   12   12   12   12   12   12   12	LAI 1	50,5	<b>*</b>	10000					5/6 5/5
121   121   122   123   124   125	LAIIA	30. 20.	0.01	0.0002					378
122 133 158 159 150 150 150 150 150 150 150 150 150 150	LKYRAREPV	121	9	0.0001		•			379
1500 00000 000000 000000 000000 000000 0000	rrarepyt	121	=			•			380
1566 1587 278 1588 278 278 278 278 278 278 278 278 278 2	YRAREPV	120	= -	0.0001					381
2.3% 10 00001 2.3% 10 0 00001 2.3% 10 0 00001 2.5% 10 0 00001	/DPIGHL	991	2 0	0.0005					382
246 45 11 10 0,00001 1	rolet.	138	~ ⊆						384
273	FUELM	246	2 =						385
278       45     9     0,0002       45     10     0,0001       160     8     0,0001       160     8     0,0001       170     9     0,0001       193     9     0,0001       193     9     0,0001       193     10     0,0001       193     10     0,0001       194     1     0,0001       195     1     0,0001       106     1     0,0001       107     0,0001     0,0001       108     8     0,0001       109     0,0001     0,0001       109     1     0,0001       109     0,0001     0,0001       109     0,0001     0,0001       109     0,0001     0,0001       109     0,0001     0,0001       109     0,0001     0,0001       109     0,0001     0,0001       109     0,0001     0,0001	SYVKV	278	<u>-</u> 6	0.0001					386
45	SYVKVL	278	. ≥	0.0002					387
15	TLGEV	45	6	0.0001					388
160   18   19   19   19   19   19   19   19	TLGEVPA	45	=						389
160 1100 0.1100	IELM	091	∞						390
25 9 0,0001 116 11 0,0002 89 9 9 0,0001 193 11 0 0,0001 171 9 0,0001 171 9 0,0001 171 9 0,0001 171 9 0,0001 172 8 8 11 175 9 0,0001 176 9 0,0001 177 9 0,0001 178 8 11 179 9 0,0001 179 9 0,0001 179 9 0,0001 179 9 0,0001	IELMEV	091	01	0.1100					391
15	QAPA	25	∞						392
116 111 0 00002  89 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	QAPAT	25	6	0.0001					393
250 10 0,0002 193 1 9 9 0,0001 193 1 10 0,0001 171 1 0 0,0001 171 1 10 0,0003 65 1 10 0,0001 172 8 8 11 173 8 8 11 174 1 10 0,0001 175 8 8 11 176 9 0,0001 177 1 1 0 0,0001 178 1 1 0,0001	LLLKYRA	911	=						394
193   9   9   9   9   9   9   9   9   9	SGGPHI	290	9	0.0002					395
193   19   19   19   19   19   19   19	EGPST	68 °	<b>3</b> (						396
193	PKAGL	193	on 5						397
193   194   195	PKAGLL	56.	2:						398
171   9   0,0001   171   9   0,0001   171   9   0,0001   171   9   0,0001   171   9   0,0001   171   9   0,0001   172   18   173   18   173   18   173   174   175   1	PKAGLLI	1,	<u> </u>						399
17   9   0,0001   17   17   10   0,0003   17   17   10   0,0003   10   0,0003   11   11   11   11   11   11   11	COEA COEA		<b>*</b> 0 (	.000					004
171   10 0,00001   171   171   171   171   171   172   173	EQEAA	٦ <u>:</u>	<b>o</b> n (	0.000					401
65 9 0.0000 65 10 0.0000 72 8 8 11 148 11 129 8 8 11 106 11 0.0001 194 8 0.0001	YIFA	3 :	ν <u>-</u>	0.000					402
65 10 65 10 62 10 129 8 129 8 106 11 106 11 106 0.0001 194 8	TIFA!	<u> </u>	2 σ	0.0003					504
65 11 62 8 129 8 129 8 106 8 106 9 0.0001 106 11 0.0001 194 8	SSLFI	G <b>Y</b>	× 5						\$ \$ \$
62 10 129 8 129 8 106 8 106 9 0.0001 106 11 0.0001 194 8	SSL III	S <b>%</b>	2 =						50
72 8 148 11 129 8 106 8 106 9 0.0001 29 10 0.0001 194 8	33Er 1 1 M	3 3	= =						404
148 11 129 8 106 8 106 9 0.0001 106 11 0.0001 29 10 0.0001 194 8	COASSL	2 6	≥•						000
129 8 11 106 8 0.0001 106 11 0.0001 29 10 0.0001 194 8 0.0001	NIFL	7/	<b>∞</b> =						904
129 11 106 8 8 106 9 0.0001 106 11 0.0001 29 10 0.0001 194 8	AEMI	2 2	- ∞						404
106 8 0.0001 106 9 0.0001 29 10 0.0001 194 8 0.0001	A EMI GOV	52.	· =						21.4
106 9 0.0001 106 11 0.0001 29 10 0.0001 194 8	SRKV	<u> </u>	; ∝						412
106 11 29 10 0.0001 194 8 194 9 0.0001	SRKVA	90	6	0.0001					413
29 10 0.0001 29 11 8 8 194 8	SRKVAEL	90							414
29 11 194 8 194 9 0,0001	TEEDEA	29	0	0.0001					415
194 8 0,0001	TEEQEAA	53	=						416
194 9 0.0001	KAGĽ	194	<b>∞</b>						417
	KAGLL	194	6	0.0001					418

	څ
	Rinding
Table VIII B	Supermotif with
	A02
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	Mage 3

SEQ ID NO.	420 421 422 433	424 424	426	427 428	429	431	432	434	435	436	438	439	440	441	443	444	445	446	448	449	450	451	453	454	456	457
A*6802 SE														0.1600												
A*0206														600												
2 A*0203																										
A*0202													0,000	0.0320												
A*0201	0.0010	1000			1000	0.0002	0.003\$	2000	0.0049			0,0140	03000	0.0250		0.0001	0.0009	0.000		0.0002		0.0045		00100	0.0	0.0001
No. of Amino Acids	<u>=</u> % 6 =	:∞ თ	`= <b>·</b>	> =	o o	. 2 :	= =	2 ∞	2:	Ξ Ξ	2 ∞	=	∞ ⊆	2 9	. ∞	6	2 9	2 ∞	=	2 :	=•	× o	· =	∞ α	<b>~ ∞</b>	6
Position	194 159 159	280 276	276	22	259 737	237	737	157	157	157	43	43	49	247	= 13	113	113	286	251	130	130	6 4 8 8	139	143	283	283
Sequence	GLLII SL SLM SLM	PA	SYVKV	TKAEM	DPA	XLL	KLLI		Siel	GIELM	ר. ה	LGEV	AA GEY	ENYL	F	FLL	FLLL	SSSL /Kl	EYRQV	ırgsv	fLGSvv	PAA	QYFFPV	<b>∑</b> 0	E S	YVKVLHHMV
Seq	QIMPKAGLLII QLVFGIEL QLVFGIELM QLVFGIELMEV	OVPGSDPA RAL VETSYV	RALVETSYVKV	KAKEPVIKA RAREPVTKAEM	RQVPGSDPA SII GDPKKI	SILGDPKKLI	SILGOPKKLL SI PTTMNYPI	SLOLVEGI	SLÓLVFGIEL	SLOLVFGIELM SOHCK PEFGI	STLVEVTL	STLVEVTLGEV	TLGEVPAA	TOHEVOENY	VAELVHFL	VAELVHFLL	VAELVHFLLI	VIHHMVKI	VQENYLEYRQV	VTKAEMLGSV	VTKAEMLGSVV	VILGEVPA	VVGNWQYFFPV	WQYFFPVI	YVKVLHHM	

Table IXa Mage 2 A03 Supermotif with Binding Data
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SEQ ID NO.	459 460 461 461 462 463 463 463 463 463 463 463 463
A*6801	0.0280 0.0460 0.0990 0.0990 0.0004 0.0020 0.00440 0.0360
A*3301	0.0003 0.0190 0.0074 -0.0013 0.0074 -0.0003 0.0056 0.0056 0.00010 0.0010 0.0370
A*310i	0.0200 0.0006 0.00084 0.00084 0.00084 0.00084 0.00084 0.00084 0.00084 0.00084 0.00089
A*1101	0.0007 0.1900 0.0018 0.0005 0.0008 0.0001 0.0011 0.0001 0.0001 0.0001 0.0001 0.0002 0.0001 0.0002 0.0002 0.0002 0.0002 0.0003 0.0002 0.0003 0.
A*0301	0.0009 0.0810 0.0047 0.0021 0.0021 0.0016 0.0011 0.0010 0.0023 0.0020
No. of Amino Acids	
Position	210 249 249 249 249 259 260 270 270 270 270 270 270 270 270 270 27
Sequence	AIEGDCAPEEK ALIETSYVK DLVQENYLEYR DSVFAHPRK ELSMLEVFEGR ELSMLEVFEGR ELVHFLLLK ELVHFLLKYR ENLESVLR ESEFQAAISR ELGDNQVMPK LLGDNQVMPK ENEEVEGR SSNQEEEGPR STIRNYTLWR TIRNYTLWR

ì	64	·//	6 21
1			T. 11.T.

Position         No. of Amino Acids         A+0301         A+1101         A+3101         A+3301         A+8601           2377         9         0.02270         0.1700         0.0009         0.0004         0.0022           236         9         0.0004         -0.0003         0.0003         0.0004         0.0002           226         9         0.0004         -0.0003         0.001         0.002         0.002           115         11         0.0009         0.001         0.001         0.001         0.002           1162         11         0.0009         0.001         0.001         0.001         0.0001           1162         11         0.0009         0.001         0.0001         0.0001         0.0001           1162         11         0.0009         0.001         0.0001         0.0001         0.0001           1183         11         0.0009         0.001         0.001         0.0001         0.0001           2004         8         0.0009         0.001         0.0001         0.0001         0.0001           118         11         0.0009         0.0001         0.0001         0.0001         0.0001           202         11				Mage 3	Table IXB A03 Supermotif wit	Table IXB Mage 3 A03 Supermotif with Binding Data	4.2		
277         9         0.0270         0.1700         0.0009         0.0004         0.0022           236         9         -0.0003         -0.0003         0.0002         0.0003         0.0004         0.0002           RR         224         11         -0.0003         0.0004         0.0003         0.0003         0.0004         0.0002           RR         115         11         0.0002         0.0001         0.0004         0.0001         0.0004         0.0001         0.0004         0.0001         0.0004         0.0001         0.0004         0.0001         0.0004         0.0001         0.0004         0.0001 <th>Sequence</th> <th>Position</th> <th>No. of Amino Acids</th> <th>A*0301</th> <th>A*1101</th> <th>A*3101</th> <th></th> <th>A*6801</th> <th>SEQ ID NO.</th>	Sequence	Position	No. of Amino Acids	A*0301	A*1101	A*3101		A*6801	SEQ ID NO.
256         8         -0,0004         -0,0003           RR         224         11         -0,0003         -0,0003           RR         115         11         0,00045         0,0001           RR         115         11         0,00045         0,0001           RK         110         0,0002         0,0001         0,0004           RK         118         11         0,1000         0,0012         -0,0006         -0,0001           PK         118         11         0,1000         0,0012         -0,0004         -0,0001           PK         118         11         0,1300         0,0012         -0,0006         -0,0001           PK         118         11         0,1300         0,0012         -0,0006         -0,0001           PK         118         11         0,1300         0,0012         -0,0006         -0,0001           R         120         0,0003         0,0004         0,0001         0,0001         -0,0001           R         120         0,0004         0,0002         0,0004         0,0004         -0,0009           R         120         0,0004         0,0004         0,0004         0,0004         0,0004 </td <td>VETSYVK</td> <td>27.7</td> <td>6</td> <td>0.0270</td> <td>0.1700</td> <td>60000</td> <td>0.0004</td> <td>0.0022</td> <td>499</td>	VETSYVK	27.7	6	0.0270	0.1700	60000	0.0004	0.0022	499
13.5   1.0   0.0003   0.00003   0.00002     1.5   1.1   0.0004   0.00013   0.00013     1.5   1.1   0.0007   0.0003   0.00013     1.5   1.1   0.0002   0.00013   0.00013     1.5   1.1   0.0002   0.00014   0.00014     1.5   1.1   0.0002   0.00014   0.00014     1.5   1.1   0.0002   0.00014   0.00014     1.5   1.1   0.0003   0.00014   0.0011   0.00011     1.5   1.1   0.0003   0.0011   0.00014   0.0011     1.5   1.1   0.0003   0.0011   0.00012   0.00011     1.5   1.1   0.0003   0.0003   0.00014   0.00014     1.5   1.1   0.0003   0.0003   0.00004     1.5   1.1   0.0003   0.0003   0.0003   0.00004     1.5   1.1   0.0003   0.0003   0.0003   0.00004     1.5   1.1   0.0003   0.0003   0.0003   0.0003     1.5   1.1   0.0003   0.0003   0.0003   0.0003     1.5   1.1   0.0003   0.0003   0.0003   0.0003     1.5   1.1   0.0003   0.0003   0.0003   0.0003     1.5   1.1   0.0003   0.0003   0.0003   0.0003   0.0003     1.5   1.1   0.0003   0.0003   0.0003   0.0003   0.0003   0.0003     1.5   1.5   1.5   0.0003   0.0	SILGDPK	236	· ••	-0.0004	-0.0003				200
R         124         11         -0,0009         0,0023           4R         115         9         0,00045         0,0011           3.4         102         11         0,0001         0,0002           3.4         102         11         0,0002         0,0004           3.4         102         11         0,0002         0,0004           3.5         10         0,0002         0,0001         -0,0001           PK         188         11         0,1300         0,0011         -0,0001           203         8         0,0005         0,0012         0,0012         0,0001           204         8         0,0005         0,0011         0,0001         0,0001           205         10         0,0005         0,0001         0,0001         0,0001           207         11         0,0009         0,0004         0,0004           208         11         0,0009         0,0004         0,0009           R         116         10         0,0009         0,0002         0,0009           R         10         0,0009         0,0002         0,0009         0,0009           R         116         10 <th< td=""><td>ILGDPKK</td><td>236</td><td>6</td><td>-0.0003</td><td>-0.0002</td><td></td><td></td><td></td><td>201</td></th<>	ILGDPKK	236	6	-0.0003	-0.0002				201
115   19   0.0045   0.0011     116   115   11   0.0002   0.0003     117   115   11   0.0002   0.0003     118   119   0.0002   0.0003     119   0.0002   0.0003     119   0.0003   0.0012     119   0.0003   0.0012     120   18   0.0058   0.0019     120   19   0.0058   0.0019     120   10   0.0280   0.0110     120   11   0.0280   0.0011     120   120   8   0.0003     120   8   0.0003   0.0004     120   8   0.0000   0.0010     120   8   0.0000   0.0004     121   11   0.0000   0.0004     122   8   0.0000   0.0004     123   8   0.0000   0.0000     124   125   8   0.0000   0.0000     125   8   0.0000   0.0000     127   8   0.0000   0.0000     128   8   0.0000   0.0000     129   8   0.0000   0.0000     120   120   120   0.0000     121   122   120   0.0000     122   13   0.0000   0.0000     123   8   0.0000   0.0000     123   8   0.0000   0.0000     123   8   0.0000   0.0000     123   8   0.0000   0.0000     123   8   0.0000   0.0000     123   8   0.0000   0.0000     123   8   0.0000   0.0000     123   8   0.0000   0.0000     123   8   0.0000   0.0000     123   8   0.0000   0.0000     124   113   11   0.0000     125   10   0.0000     125   10   0.0000     125   10   0.0000     125   10   0.0000     125   10   0.0000     125   10   0.0000     125   10   0.0000     125   10   0.0000     125   125   125     125   12	SVLEVFEGR	224	=	-0.000	0.0023				502
R         115         11         0.00011         0.0031           R         102         11         0.0002         0.0004           R         102         11         0.0002         0.0004           R         250         10         0.0009         0.0012         -0.0006         -0.0013         -0.0001           PK         188         11         0.1300         0.0570         -0.0006         -0.0013         -0.0001           PK         188         11         0.1300         0.0057         -0.0004         -0.0001           203         8         0.0058         0.0190         0.0012         0.0052         -0.0001           K         189         10         0.0021         0.0021         0.0022         -0.0001           K         180         0.0022         0.0102         0.0022         -0.0001           R         10         0.0021         0.0024         0.0004           R         116         8         0.0004         0.0004           R         116         10         0.0002         0.0004           R         116         10         0.0002         0.0004           R         116	VHFLLLK	115	6	0.0045	0.0011				503
R         102         110         0.0002         0.0004           R         250         11         0.0002         0.0004           PK         119         9         0.0009         0.0012         -0.0006         -0.0013         -0.0001           PK         118         11         0.1300         0.0057         -0.0006         -0.0013         -0.0001           203         9         0.0069         0.0019         0.0017         -0.0006         -0.0013         -0.0001           204         18         0.0580         0.0021         0.0021         0.0021         0.0025         -0.0001           X         189         10         0.0200         0.0110         0.0022         -0.0001         0.0021           X         189         10         0.0200         0.0104         0.0002         0.0001           R         115         8         -0.0009         0.0036         0.0036         0.0009         0.0009           R         116         8         0.0009         0.0002         0.0003         0.0009         0.0009           R         116         9         0.0009         0.0003         0.0003         0.0009         0.0009	VHFLLLKYR	115	=	0.0011	0.0031				504
RK         102         11         0,0002         0,0004           R         250         10         0,0009         0,0012         -0,0006         -0,0013         -0,0001           PK         188         11         0,1300         0,0370         -0,0006         -0,0013         -0,0001           203         9         0,0069         0,0101         0,0001         -0,0001         -0,0001           203         10         0,0230         0,0190         0,0102         0,0002         -0,0001           203         10         0,0220         0,0110         0,0004         -0,0001         -0,0001           203         10         0,0220         0,0110         0,0004         -0,0004         -0,0004           21         11         0,0004         0,0004         0,0004         -0,0009         -0,0004           R         116         10         0,0004         0,0002         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009         -0,0009	EFQAALSR	102	0	0.0002	0.0002				205
119   9   0,0009   0,0012   0,0006   0,0013   0,0001	EFOAALSRK	102	=	0.0002	0.0004				206
R         250         10         0,0009         0,0012         -0,0006         -0,0013         -0,0001           203         9         0,0069         0,0017         -0,0006         -0,0013         -0,0001           204         8         0,0058         0,0190         0,0190         -0,0001         -0,0001           205         10         0,0220         0,0190         0,0110         0,0022         -0,0001           R         120         8         -0,0009         -0,0004         -0,0004         -0,0004           R         116         10         -0,0009         -0,0004         -0,0009         -0,0009           R         116         10         -0,0009         -0,0004         -0,0009         -0,0009           R         116         10         -0,0009         -0,0002         -0,0009         -0,0009           R         2         10         0,0003         -0,0002         -0,0009         -0,0009           R         125         8         -0,0009         -0,0003         -0,0003         -0,0003           R         125         8         -0,0009         -0,0003         -0,0003         -0,0003           R         125	LLKYRAR	611	6						207
MPK   188   11   0.1300   0.0570   -0.0006   -0.0013   -0.0001   -0.0002	QENYLEYR	250	0	6000'0	0.0012				208
χ         203         9         0,0069         0,0011           χ         204         8         0,0053         0,0037         0,0037         -0,0001           χ         202         10         0,0280         0,0021         0,0035         -0,0001           R         201         11         0,0021         0,0036         -0,0004         -0,0004           R         201         11         0,0021         0,0036         -0,0004         -0,0004           CGR         227         10         -0,0004         -0,0004         -0,0009         -0,0009         -0,0000           CGR         278         8         -0,0004         -0,0002         -0,0002         -0,0009         -0,0009           CFY         2         10         0,0004         -0,0002         -0,0003         -0,0003         0,0004           CFY         2         10         0,0004         -0,0003         -0,0003         0,0003         0,0004           CFY         237         8         -0,0009         -0,0003         0,0003         0,0003         0,0004           CLLK         113         11         -0,0002         0,0003         0,0003         0,0003         0,0004	LGDNOIMPK	188	=	0.1300	0.0570	-0.0006	-0.0013	1000'0-	209
X         204         8         0,0053         0,0037         0,0012         0,0052         -0,0001           K         202         10         0,0280         0,0190         0,0012         0,0052         -0,0001           R         201         11         0,0021         0,0036         0,0010         0,0036         -0,0004         0,0036         -0,0004         0,0036         -0,0004         0,0030         -0,0009         -0,0004         0,0036         0,0200         0,0200         0,0036         0,0200         0,0200         0,0036         0,0200         0,0200         0,0003         0,0003         0,0200         0,0003         0,0200         0,0200         0,0200         0,0200         0,0200         0,0200         0,0003         0,0200 <th< td=""><td>LAIIAR</td><td>203</td><td>6</td><td>6900'0</td><td>0.0011</td><td></td><td></td><td></td><td>210</td></th<>	LAIIAR	203	6	6900'0	0.0011				210
K         285         8         0.0580         0.0190         0.0012         0.0052         -0.0001           R         202         10         0.0280         0.0021         0.0021         0.0022         -0.0001           R         201         11         0.0021         0.0036         0.0036         0.0037         0.0004         0.0004         0.0004         0.0004         0.0004         0.0004         0.0009         0.0009         0.0200         0.0009         0.00	AllAR	204	∞	0.0053	0.0037				511
R         202         10         0.0280         0.0021           RR         201         11         0.0200         0.0110           R         201         11         0.0200         0.0010           3         12         8         -0.0009         -0.0004           116         8         -0.0009         -0.0004           116         18         0.0220         0.0014           116         10         0.0009         -0.0009         -0.0009           CYR         116         11         -0.0009         -0.0002         -0.0009           CYR         2         10         0.0009         -0.0002         -0.0009           CYR         2         10         0.0009         -0.0003         0.0003           CYR         2         10         0.0009         -0.0003         0.0003         0.0004           CYR         125         8         -0.0009         -0.0003         0.0100         0.0003         0.0004           CLLK         113         0.0003         0.0001         0.0003         0.0003         0.0009         0.0009           CLLK         113         0.0003         0.0001         0.0000         0.0	LHHMVK	285	∞	0.0580	0.0100	0.0012	0.0052	-0.0001	512
IRP         189         10         0.0200         0.0110           IR         201         11         0.0021         0.0056           R         201         11         0.0020         -0.0004           GGR         225         10         -0.0006         0.0030           GGR         225         10         -0.0004         0.0014           CGR         278         8         -0.0004         0.0014           CGR         278         8         -0.0004         0.0014           CGR         266         11         -0.0009         -0.0002           CFR         2         10         0.0009         -0.0002           CFR         2         10         0.0009         -0.0002           CFR         2         1         0.0009         -0.0002           CFR         2         1         0.0009         -0.0003           CFR         2         0.0009         -0.0003         0.0003         0.0003           CFR         2         0.0009         0.0003         0.0003         0.0003         0.0003           CFR         2         0.0009         0.0003         0.0003         0.0003         0.0004 </td <td>VLAIIAR</td> <td>202</td> <td>9</td> <td>0.0280</td> <td>0.0021</td> <td></td> <td></td> <td></td> <td>513</td>	VLAIIAR	202	9	0.0280	0.0021				513
IR         201         11         0.0021         0.0056           R         120         8         -0.0009         -0.0004           GGR         225         10         -0.0006         0.0030           CGR         278         8         -0.0004         0.0014           CFPR         266         11         -0.0009         -0.0002           CYK         2         10         0.0003         -0.0002           ACR         2         10         0.0003         -0.0002           ACR         2         10         0.0003         -0.0003           CA         125         8         -0.0009         -0.0003           CA         13         1         -0.0009         -0.0003           CA         13         1         -0.0009         -0.0003           CA         13         1         -0.0009         -0.0003           CA         13         0.0004         -0.0003         0.0	GDNQIMPK	189	2	0.0200	0.0110				514
R         120         8         -0,0009         -0,0004           GR         225         10         -0,0006         0,0030           GR         278         8         -0,0004         0,0014           C         116         8         0,0290         0,01500         0,0007         -0,0009         0,0200           CYR         266         11         -0,0009         -0,0002         -0,0002         -0,0002         -0,0002           HR         3/3         8         -0,0009         -0,0003         0,0003         0,0004         0,0004           C         125         8         -0,0009         -0,0003         0,0012         0,0004           C         125         8         -0,0009         0,0012         0,0003         0,0004           C         125         8         -0,0009         0,0012         0,0004         0,0004           C         13         11         -0,0009         0,0011         0,1700         0,6600         0,0064           LLLK         113         11         -0,0002         0,0001         0,0004         0,0004         0,0004           AAN         9         0,0004         0,0004         0,0004	IIVLAIIAR	201	=	0.0021	0.0056				515
IGR         225         10         -0,0006         0,0030           278         8         -0,0004         0,0014         0.0007         -0.0009         0.0200           II6         10         0,0290         0,1500         0.0002         0.0009         0.0200           VGPR         26         11         -0,0009         -0,0002         0.0002           4CK         2         10         0,0003         0,0002         0.0003         0.0003           4CK         333         8         -0,0009         -0,0003         0.0110         0.0003         0.0004           CVK         125         8         -0,0009         -0,0003         0.0170         0.0004           CLLK         113         11         -0,0009         0.0140         0.1700         0.6600         0.0860           LLLK         113         11         -0,0002         0.0001         0.0001         0.0006         0.0006           AAAR         33         8         -0,0002         0.0006         0.0006         0.0006         0.0006	LKYRAR	120	∞	-0.000	-0.0004				516
278         8         -0,0004         0,0014           116         8         -0,0004         0,1500         -0,0009         0,0200           116         10         0,0260         0,0322         -0,0002         -0,0002           4CK         2         10         0,0003         -0,0003         -0,0003         -0,0003           AVK         303         8         -0,0009         -0,0003         -0,0003         0,0004           CVK         125         8         -0,0009         -0,0003         0,0012         0,0012           AVK         226         9         0,0003         0,1400         0,1700         0,6600         0,0860           LLLK         113         11         -0,0002         0,0011         0,0014         0,0064           AAR         323         8         0,0016         0,0016         0,0011         0,0066	VLEVFEGR	225	<u>o</u>	-0.0006	0.0030				517
Common Name         116         8         0.0290         0.1500         0.0007         -0.0009         0.0200           CYK         266         11         -0.0009         -0.0002         -0.0002         -0.0003         0.0003         -0.	'ETSYVK	278	∞	-0.0004	0.0014	•			518
I/R         116         10         0.02560         0.0022           WGPR         266         11         0.0003         0.0002           4CK         2         10         0.0003         0.0002           4CK         2.6         11         0.0003         0.0003           R         303         8         -0.0009         -0.0003         0.0004           C         237         8         -0.0009         0.0140         0.1400         0.1700         0.6600         0.0860           5R         2.26         9         0.0003         0.1400         0.1700         0.6600         0.0860           LLLK         113         11         -0.0002         0.0011         0.0011         0.0016           AAR         223         8         0.0016         0.0066         0.0066	HFLLLK	116	∞ '	0.0290	0.1500	0.0007	-0.0009	0.0200	519
VGPR         266         11         -0.0009         -0.0002           4CK         2         10         0.0003         0.0002           R         303         8         -0.0009         -0.0003         0.0003         0.0004           CVK         276         10         0.0190         -0.0003         0.0003         0.0004           C         237         8         -0.0009         0.0140         0.1700         0.6600         0.0860           CLLK         113         11         -0.0002         0.0011         0.0011         0.0016         0.0006           AAR         237         8         0.0016         0.0006         0.0006	HFLLLKYR	911	01	0.0260	0.0022				220
4CK         2         10         0.0003         0.0002           R         303         8         -0.0009         -0.0003         0.0034         0.0003         0.0004           CVK         276         10         0.0190         -0.1003         0.0003         0.0004           C         237         8         -0.0009         0.0012         0.0012           3R         226         9         0.0003         0.1400         0.1700         0.6600         0.0860           LLLK         113         11         -0.0002         0.0011         0.0014         0.0016           AAR         237         8         0.0016         0.0006	CYEFLWGPR	566	=	-0.0009	-0.0002				521
R         303         8         -0.0009         -0.10003         0.00034         0.0004           CVK         276         IO         0.0190         0.1100         0.0034         0.0003         0.0004           C         237         8         -0.0009         0.0012         0.0170         0.6600         0.0860           CLLK         113         11         -0.0002         0.0011         0.0014         0.0016           AAR         227         8         0.0016         0.0006         0.0006	EQRSQHCK	2	<u>o</u>	0.0003	0.0002				522
CVK         276         10         0.0190         0.1100         0.0034         0.0003         0.0004           C         125         8         -0.0009         -0.0003         0.0012         0.0012         0.0012         0.00860         0.0860           SR         226         9         0.0003         0.1400         0.1700         0.6600         0.0860           LLLK         113         11         -0.0002         0.0011         0.0014         0.0016           AAAR         227         8         0.0016         0.0064	HEWVLR	303	00	-0.0009	-0.0003	•	•		523
C 125 8 -0.0009 -0.0003  C 237 8 -0.0009 0.0012  C 237 8 -0.0009 0.0012  C 226 9 0.0003 0.1400 0.1700 0.6600 0.0860  C 227 8 0.0016  C 227 8 0.0016  C 227 8 0.0016	ILVETSYVK	276	<u>o</u>	0.0190	0.1100	0.0034	0.0003	0.0004	524
237 8 -0.0009 0.0012 0.1700 0.6600 0.0860 0.0012 0.1700 0.6600 0.0860 0.002 0.1400 0.1700 0.6600 0.0860 0.002 0.0011 0.00	REPVTK	125	œ ·	-0.0009	-0.0003				575
LK 113 11 -0.0002 0.1400 0.1700 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000	LGDPKK	237	<b>00</b> 6	-0.0009	0.0012	000	0000	07000	976
113 11	/LEVFEGR	226	o :	0.0003	0.1400	0.1700	0.0000	0.0860	775
2000 0 000 0 010 886	AELVHFLLLK	۱۱. در	<u> </u>	0.000	0.000				526
	VLEVFEUR VVKVI HHMANK	787	o <u>C</u>	0.0020	0.0061				530

Table X.A
Mage 2 A24 Supermotif Peptides with Binding Data

SEQ ID NO. 0.0230 0.0950 0.0007 0.0004 0.0006 0.0097 0.0002 No. of Amino Acids Position ETSYVKVL
EVFEGREDSVF
EVVEVVPISHL
EVVENSHL
EVVPISHLY
GLEARGEAL
GLEA Sequence



	Binding
	with
Table X A	Pentides
Tab	A24 Supermotif Pentides with Binding Da
	A24
	Mage 2
	-

		THE CANAL PRINCIPLY A COURSE WITH	Durant Data	
Sequence	Position	No. of	A*2401	SEQ ID NO.
		Amino Acids	200	
KIWEELSM	220	œ		245
KIWEELSML	220	o		578
KMVELVHF	112	\ <b>0</b> 00	0.0003	579
KMVELVHFL	112	6		580
KMVELVHFLL	112	0		581
KMVELVHFLLL	112	-		582
KTGLLIIVL	198	: 6		583
KTGLLIIVLAI	861	=		584
KVLHHTLKI	285	: 0		585
LIETSYVKVL	278	. 01		586
LIIVLAII	202	e oc		587
LIIVLAIIAI	202	, 2		588
LLGDNOVM	189	. ° • • •		586
LLIIVLAÌ	201	) oc		260
LLIIVLAII	201	0 0		591
LLIIVLAIIAI	201	. =		592
LLMODLVQENY	245	: =		593
LMODLVOENY	246	: =		765
LMODLVOENYL	246	2 =		\$65
LVHFLLLKY	116	: 0		50 <b>5</b>
LVOENVIEV	250	` 0		507
YZ (1) (2) (4)	- 120	<b>^</b> C		760
i wgprai i	277	<b>~</b> 0	00010	986
I VII VICI	175	0 0	0.1.200	946
ו אוו אבנו פו	521	o <u>S</u>	0.000	200
MEPDLESEE	65	2 σ	0.0140	100
MVEI VHFI	113	· •	0100	200
MVEI VHFI I	213			500
MVEL VHFL L	212			****
IIA I I I	221	<u> 2</u> ∞		500
PVIESKASEY	148	≎ ⊆		203
PVIESK ASEVI	148	2 =		/00
PVTKAFMI	120	= •		800
OTASSSTI	33	• 0		600
OVMPKTGL	76	<b>^</b> 0		010
OVMPKTGLI	7 2	0 0		613
OVMPKTGLI	7 5	\ <u>-</u>		513
OVMPKTGLLII	761	2 =		613
OVPGSDPACY	260			515
RMFPDLESEF	<u> </u>	2 5	91000	919
SFSTTINY	2	? oc		617
SFSTTINYTL	70	, <u>e</u>	0.0150	618
SFSTTINYTLW	70	=	0.0280	619
STLVEVTL	43	∵ ∞		620
STTINYTL	72	∞		. 621
STINYTLW	72	6		622

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Table X.A. Aage 2 A24 Supermotif Peptides with Binding Da		څ
Table X.A. Sunermotif Pentides with		Binding 1
Table X.A. Tage 2 A24 Supermotif Pentides		with
T 1age 2 A24 Supermot	able X A	tif Pentides
1age 2 A24	H	Supermot
fage 2		A24
		Asoe 2

	237 237 237 238 238 238 238 238 238 238 239 237 237 237 237 237 237 237 237 237 237	Sequence	Position	No. of Amino Acids	A*2401	SEQ ID NO.
237   10   10   11   13   13   13   14   15   15   15   15   15   15   15	23.7 23.8 23.8 23.8 23.8 23.8 23.8 23.8 23.9 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	RKL	237	6		623
138 9 10 0.0003 282 10 10 0.0003 282 10 10 0.1600 282 283 8 8 0.0006 238 8 0.0006 238 139 8 8 0.0006 149 9 9 0.0004 149 195 8 8 0.0004 195 8 8 0.0004 195 195 8 8 0.0004 196 197 8 8 0.0004 197 8 8 0.0004 198 199 11 11 11 11 11 11 11 11 11 11 11 11	237 238 238 238 238 238 238 238 239 249 250 250 250 250 250 250 250 250 250 250	PRKLL	237	01		624
138     9       282     10       282     10       282     10       290     0.0003       238     8       238     8       238     9       239     0.0006       230     10       230     10       230     10       249     0.0004       250     10       260     8       270     10       139     9       149     10       150     0.0004       170     11       160     10       160	280 282 238 238 238 238 239 240 250 250 250 250 250 250 250 250 250 25	PRKLLM	237	=		625
138     10       282     10       283     10       290     10       238     8       238     10       238     10       238     10       239     10       230     10       230     10       230     10       249     8       139     8       139     8       149     11       150     0.0300       170     11       166     10       166     9       167     11       170     11       170     11       170     11       170     11       170     11       170     11       170     11       170     11       170     11       170     11       170     11       18     11       170     11       18     11       19     10       10     10       10     10       10     10       11     10       12     11       13     11       14     11	280 282 238 238 238 238 239 250 250 250 250 250 250 250 250 250 250	CODF	138	6		626
282 10 0,0003 292 290 10 0,1600 298 8 0,0006 238 8 8 0,0006 238 149 9 0,0006 149 9 9 0,0004 149 9 9 0,0004 195 8 8 0,0004 195 195 8 8 0,0004 179 11 11 11 176 176 177 177 178 178 179 179 170 170 170 170 170 170 171 171 171 171 172 173 174 175 176 177 177 178 178 178 178 178 178 178 178 179 170	282 283 238 238 239 252 253 253 253 253 253 253 253 253 253	CODFF	138	10		627
282 10 0.1600 290 10 0.1600 73 8 8 0.0005 238 8 8 0.0006 238 10 0.0004 149 10 10 0.0004 139 8 8 0.0004 139 8 8 0.02300 139 8 8 0.02300 179 11 11 11 160 110 111 170 110 111 170 110 111 170 111 171 111 172 173 8 8 0.02300 173 174 111 175 176 177 171 177 177 171 178 178 8 8 0.02300 179 8 8 0.02300 179 179 170 170 170 170 170 170 170 170 171 171 171 171 171 171 171 171 171 171	282 233 238 238 230 230 230 230 230 230 230 230 230 230	ERAL	300	10	0.0003	628
290     10       238     8       238     8       238     9       230     10       231     10       232     10       233     10       149     9       149     9       139     8       139     8       139     8       140     0.0004       15     8       16     9       170     11       160     10       160     9       160     9       161     11       162     9       163     9       164     9       165     9       166     10       167     11       168     8       169     9       160     9       160     9       160     9       160     9       160     9       160     9       160     9       160     9       160     9       160     9       160     9       160     9       160     9       160     9	238 238 238 238 249 250 250 250 260 260 260 260 260 260 260 260 260 26	CHET	282	10	0.1600	629
238     8     0,00005       238     8     0,0006       238     10     0,0006       230     10     0,0006       149     10     0,0004       139     8     0,0004       139     8     0,2300       195     9     0,0004       179     11     0,0004       166     11     0,0004       169     8     8       169     8     8       169     9     9       170     9     11       170     9     11       171     8     8       180     10     10       181     10     10       182     10     10       183     8     8       184     11     10       185     8     8       186     10     10       187     8     8       188     10     10       189     9     10       180     10     10       180     10     10       180     10     10       180     10     10       180     10     10       181     10	23.8 23.8 23.8 23.8 23.9 23.9 23.9 23.9 23.9 23.9 23.9 23.9	EPHI	290	01		630
238 8 0,0005 238 10 0,0006 238 10 0 10 0,0006 230 10 10 0,0004 149 10 10 0,0004 139 8 6,0004 195 8 6,0004 195 10 11 11 166 110 169 8 8 0,00580 178 8 0,00580 179 11 11 179 110 170 111 170 111 170 111 171 111 171 111 172 123 173 174 111 174 111 175 125 8 8 100 175 175 175 175 175 175 175 175 175 175	238 238 238 249 249 250 250 260 260 260 260 260 260 260 260 260 26	<b>K</b>	73	800		631
238 10006 238 10 0.0006 230 10 0.0004 149 9 0 0.0004 149 9 9 0.0004 139 8 8 0.02300 195 9 0 0.2300 179 8 8 0.2300 179 11 11 110 166 110 0.0580 169 9 0 0.0580 169 9 10 111 176 9 9 10 10 111 176 9 9 10 10 111 177 178 8 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	238 238 286 296 297 297 298 298 298 298 298 298 298 298 298 298	KL	238	00	0.0005	632
238   10   0,0004   1.49   1.4	238 249 286 295 295 295 296 296 297 297 298 298 298 298 298 298 298 298 298 298	KKLL	238	6	90000	633
230	230 244 244 255 257 257 257 257 257 257 257 257 257	KLLM	238	01		634
149   9   9   10   286   8   8   8   8   139   9   9   9   9   9   9   9   9   9	286 286 286 139 139 170 166 169 169 176 176 183 283	:DSVF	230	01	0.0004	635
286 8 8 8 139 9 9 10 10004 195 8 8 9 10004 195 9 9 10 2300 195 195 195 195 195 195 195 195 195 195	286 286 139 179 170 166 166 169 176 176 183 283	SEY	149	6		636
286 8 8 -0,0004 139 9 9 -0,0004 195 8 8 0,2300 195 9 9 0,0580 179 8 8 0,0580 179 11 11 186 166 10 169 9 10 176 9 9 11 176 9 9 11	286 139 195 170 170 166 166 176 177 283 283	SEYL	149	10		637
139   8   -0,0004     195   8     0,2300     195   9   0,2300     179   8   8   0,2300     179   8   8   11     166   10   11     169   8   8     169   9   9     176   9   10     176   9   11     176   18   8     283   283   9	239 255 277 279 279 270 270 270 270 270 270 270 270 270 270	,KI	286	∞		638
139   9   9   -0,0004     195   9   9   0,2300     195   10   0,0580     179   8   8   0,0580     170   11   11     166   10   11     169   9   9     176   9   10     176   9   11     176   18   8     187   8   8     187   18   8     187   18   8     188   189     187   188   189     187   188   189     188   189     189   180   180     180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180   180   180     180	283 283 283 283 283	∂DF	139	∞		639
195   9	195 179 179 180 166 166 169 176 176 183	20FF	139	6		640
195   99   0,2300   179   8   8   179   179   179   179   179   179   179   179   179   170   176	195 179 179 166 169 176 177 178 283	GLL GLL	195	∞	-0.0004	641
195 10 0.0580 179 8 8 119 130 111 119 150 150 150 150 150 150 150 150 150 150	195 179 186 166 169 176 176 283	OLLI	195	6	0.2300	642
179   8     179   11   130   11   130	179 130 166 169 169 176 176 183 283	OLLII	195	01	0.0580	643
179 110 116 166 166 169 169 169 176 176 177 178 18 18 187 283	179 186 166 169 169 176 177 283	SY	179	∞		644
130 166 166 169 169 169 176 176 176 176 176 176 19 18	130 166 169 169 176 176 283 283	SYDGL	179	=		645
166 10 165 8 169 8 169 9 176 9 176 9 176 11	166 169 169 176 176 177 283 283	MLESVL	130	=		646
11.   166   11   166   11   169   8   8   8   169   9   9   10   10   10   10   10   10	1LY 166 169 169 169 16 17 17 12 283 1KI 283	PISHL	991	10		647
L 169 8 8 8 169 9 9 169 9 9 10 169 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	169 169 169 176 176 17 17 187 17 183 183	PISHLY	991	=		648
L 169 9 L 169 10 176 9 LSY 176 11 L 283 9	L 169 169 176 176 177 17 187 183 178	LY	169	∞		649
SY 176 10 177 8 11 11 11 11 11 11 11 11 11 11 11 11 1	169 176 SY 176 157 157 181 283	LYI	691	6		650
176 9 176 11 157 8 283 9	176 176 157 283 283	LYIL	691	01		159
176 11 157 8 283 9	176 157 283 283	191	176	6		652
15/ 8	283 283	rgrsy 'G'	176	Ξ,		653
, Co2	283	Į į	(S)	∞ (		654
		מוחור.	283	<b>^</b> :		660

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Table X B
Mage 3 A24 Supermotif Peptides with Binding Data

SEQ ID NO.	657 658 660 661 662 663 665 665 665 667 670 671 672 673 674 674 675 676 687 688 688 689 689 689 690 690 690 690 690 690 690 690 690 69
A*2401	0.0004 0.0006 -0.0007 -0.0004 -0.0004 0.0120 0.0160 0.0910
No. of Amino Acids	<ul><li>□ ∞ □ ∞ □ ∞ □ ∞ ∞ □ ∞ ∞ □ ∞ □ ∞ ○ □ ∞ □ ∞</li></ul>
Position	108 179 179 179 179 179 170 170 170 188 188 188 170 170 170 170 170 170 170 170 170 170
Sequence	ALSRKVAEL ALVETSYVKYL ATCLGLSY ATCLGLSY ATCLGLSYDGL CLGLSYDGL ELWCPRAL ELWCPRAL ELWCPRAL ELSYVKYL EVGENYL FYGENYL FYGENYL HEYGENYL FYGENYL HEYGENYL HEYGENYL FYGENYL HEYGENYL HEYGEN

Table X B
Mage 3 A24 Supermotif Peptides with Binding Data

SEQ ID NO.	702 704 705 706 707 710 711 711 711 712 720 721 723 724 725	727 728 729 730	731 732 735 736 739 740 743 745 745
A*2401	0.4200 0.0500 -0.0004 0.0260	0.0140	0.5300 0.0170 0.0270
No. of Amino Acids	∞ ♥ ♂ ∞ ≃ ∞ ♂ ⊙ □ ♥ ∞ ∞ ♥ □ □ □ □ □ □ ∞ ♠	\∞2⊙ <u></u> 5	2 o
Position	195 195 195 221 220 220 112 235 266 666 166 160 160	175 175 135 135 135	25
Sequence	IMPKAGLL IMPKAGLLI IMPKAGLLI IMPKAGLLII IMPELSVL IMEELSVL IMEELSVL IMGELSVL IMGELSVL IMGELSVL IMGELSVL IMGELSVL IMGELSVL IMGELVL IMGELVL IMGELVL IMGELVL IMGELVL IMGELVL IMGELVL IMGELVL IMGELVL IMGELVHF IMGELV IMGELV IMGELV IMGELV IMGELV IMGEN ILIMAII ILI	LYIFATCL LYIFATCLGL MLGSVVGNW MLGSVVGNWQY	MWKNSGOFHI NWQYFFPVI NWQYFFPVI NYPLWSQSY PIGHLYIF PTTMNYPLW PVIFSKASSL PVTKAEML QIMPKAGLL QIMPKAGLL QIMPKAGLLI QIMPKAGLLI QIMPKAGLLI QIMPKAGLLI QIMPKAGLLI QUMPKAGLLI QUMPKAGLLI QUMPKAGLLI QUMPKAGLLI QUMPKAGLLI QUMPKAGLLI



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SEQ ID NO.	747 749 750 751 752 755 756 766 766 767 767 770 771 771 771 771 771
A*2401	0.1200 0.0026 0.6900 0.0049 -0.0004 -0.0005
No. of Amino Acids	∞ ♥ 5 ≈ 5 ± ≈ 5 ± 5 ≈ ≈ ♥ 5 ± ≈ 5 ♥ ♥ ± ≈ ♥ 5 5 ≈ ≈ ♥ ♥ ± ≈ ±
Position	237 237 237 237 237 237 237 237 237 237
Sequence	QYFFPVIF SILGDPKKL SILGDPKKLL SILGDPKKLL SLPTTMNYPLW SLQLVFGIEL SLPTTMNYPLW SLQLVFGIEL STPDLESEF STRPDLESEF STRPDLESEF STRPDLESEF STRPLLESEF STVGNWQYF SVVGNWQYF SVVGNWQYF SVVGNWQYF SVVGNWQYF SVVGNWQYF TTMNYPLW SYPLHHMM TFPDLESEF TTMNYPLW VFGREDSIL VFGREDSI

Table XIA
Mage 2 B07 Supermotif Peptides with Binding Data

Sequence	Position	No. of Amino Acids	B*0702	SEQ ID NO.
APATEEQQTA	30	10	0.0002	778
APEEKIWEEL	216	10	0.0001	779
DPACYEFL	265	∞	-0.0002	780
DPACYEFLW	265	6	0.0001	181
EPHISYPPL	296	6	0.1100	782
EPVTKAEM	128	•	0.0010	783
EPVTKAEML	128	6	0.0001	784
FPDLESEF	86	∞	-0.0002	785
FPDLESEFQA	86	10	0.0002	786
FPDLESEFQAA	86	=	-0.0001	787
FPVIFSKA	147	•	0.0003	788
FPVIFSKASEY	147	=	0.0004	789
GPRALIETSY	274	01	0.0008	790
GPRALIETSYV	274	=	0.1300	162
GPRMFPDL	94	•	0.0063	792
HPRKLLMQDL	241	01	0.0400	793
HPRKLLMQDLV .	241	=	0.0042	794
KPEEGLEA	=	•	-0.0002	795
MPKTGLLI	961	•	0.0190	962
MPKTGLLII	196	6	0.0020	797
MPKTGLLIIV	196	10	0.0003	798
MPKTGLLIIVL	961	=	0.0099	799
PPHSPQGA	19	~	-0.0002	800
PPHSPQGASSF	19	=	-0.0003	801
PPLHERAL	302	•	0.0026	802
SPPHSPQGA	09	6	0.0001	803
SPQGASSF	42	œ	0.0007	804
SPSPPHSPQGA	58	=	90000	805
VPGSDPACY	261	6	0.0001	908
VPGSDPACYEF	261	=	-0.0001	807
VPISHLYI	170	∞	0.0170	808
VPISHLYIL	170	σ;	0.2500	608
VPISHLYILV	0/-	0.	0.002/	018
Y PPLHEKA VDDI HERA	301	∞ c	-0.0002 0.2700	213
ונורוורות		•	22/4:0	1

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		Table XI B  Mage 3 BO7 Supermotif Peptides with Binding Data	Binding Data	
Sequence	Position	No. of Amino Acids	B*0702	SEQ ID NO.
APATEEOEA	30	6	0.0001	813
APATEEÒEAA	30	10	0.0002	814
APEEKIWEEL	216	01	0.0001	815
DPACYEFL	265	•	-0.0002	816
DPACYEFLW	265	6	0.0001	817
DPIGHLYI	170	∞	-0.0002	818
DPIGHLYIF	170	6	0.0001	819
DPIGHLYIFA	170	01	0.0002	820
DPKKLLTQHF	241	01	0.0001	821
DPKKLLTQHFV	241	=	-0.0004	822
DPPQSPQGA	09	6	0.0001	823
EPVTKAEM	128	∞	0.0010	824
EPVTKAEML	128	6	0.0001	825
FPDLESEF	86	00	-0.0002	826
FPDLESEFQA	86	01	0.0002	827
FPDLESEFOAA	86	=	-0.0001	828
FPVIFSKA	147	8	0.0003	829
GPHISYPPL	296	6	0.8800	830
GPRALVETSY	274	01	0.0002	831
GPRALVETSYV	274	=	0.1900	832
GPSTFPDL	94	•	-0.0002	833
KPEEGLEA	=	∞	-0.0002	834
CPTTMNYPL	71	6	0.0770	835
LPTTMNYPLW	11	01	0.0001	836
MPKAGLLI	961	••	0.1300	837
MPKAGLLII	961	6	0.0170	838
MPKAGLLIIV	961	2	0.0031	839
MPKAGLLIIVL	961	=	0.0280	840
PPLHEWVL	302	000	-0.0002	841
PPQSPQGA	19	000	-0.0002	842
PPQSPQGASSL	61	=	0.0049	843
SPDPPQSPQGA	58	=	-0.0001	844
SPQGASSL	2	80	0.0081	845
VPGSDPACY	261	6	0.0001	846
VPGSDPACYEF	261	=	-0.0001	847
YPLWSQSY	44	∞ ₁	-0.0002	848
YPPLHEWV	301	∞ (	-0.0002	849
IFFCREWVL	301	<b>3</b>	0.0027	000

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L.		Table XII A

-	Mage 2 B27 Supermotif Peptides	notif Peptides	
Sequence	Position	No. of Amino Acids	SEQ ID NO.
AHPRKLLM	240	∞	851
AHPRKLLMQDL	240	==	852
AREPVTKAEM	126	01	853
AREPVTKAEML	126	=	854
ARGEALGL	18	8	855
EKIWEELSM	219	6	856
EKIWEELSML	219	10	857
LKIGGEPHI	291	6	858
LKIGGEPHISY	291	=	859
LRNCQDFF	140	8	860
LRNCODFFPVI	140	=	198
PHISYPPL	297	8	862
PHSPOGASSF	62	01	863
PKTGLLII	197	8	864
PKTGLLIIVL	197	01	865
PRALIETSY	275	6	998
PRKLLMQDL	242	6	867
PRMFPDLESEF	95	=	898
OHCKPEEGL	8	6	698
RKLLMQDL	243	8	870
RKMVELVHF	Ξ	6	871
RKMVELVHFL	Ξ	0	872
RKMVELVHFLL	==	=	873
SHLYILVTCL	173	02	874
SKASEYLQL	152	6	875
SKASEYLOLVF	152	=	876
SRKMVELVHF	110	0	877
SRKMVELVHFL	011	=	878
TKAEMLESVL	131	01	819
VHFLLLKY	117	∞	880
VKVLHHTL	284	∞ -	881
VAVLARIUM	797	2	700

53 9	V.	(B
		Table XII

	Mage 3 B27 Supermotif Peptides	ermotif Peptides	
Sequence	Position	No. of Amino Acids	SEQ ID NO.
AREPVTKAEM	126	01	883
AREPUTKAEMI	126	=	884
ARGEALGL	: <u>«</u>	. 000	885
EKIWEFI SVI	219	01	886
GHLYIFATCL	173	10	887
KKTLTOHF	243	80	888
PHISYPPL	297	90	888
PHISYPPLHEW	297	=	890
PKAGLLII	197	000	168
PKAGLLIIVL	161	10	892
PKKLLTOHF	242	6	893
PRAL VETSY	275	6	894
OHCKPEEGL	_∞	6	895
OHFVOENY	248	80	968
OHFVOENYL	248	6	897
OHFVOENYLEY	248	=	868
RKVAELVHF	==	6	668
RKVAELVHFL	==	01	006
RKVAELVHFLL	===	=	106
SKASSLOL	152	6	305
SKASSSLOLVF	152	=	903
SRKVAELVHF	110	10	904
SRKVAELVHFL	110	=	905
VHFLLLKY	117	∞	906
VKISGGPHI	291	6	406
VKISGGPHISY	291	=:	806
VKVLHHMVKI	284	01	606

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Sequence	Position	No. of Amino Acids	SEQ ID NO.
AAISBKMV	107	œ	016
AAISRKMVFI	201	0.00	116
AAISPKMVELV	201	? =	912
ACEVI OI V	154	: ∝	516
ASEVI OLVF	154	6	914
ASEVI OI VEGI	151	=	516
ASSESTTI	89	∵ ∞∞	916
ASSESTTINY	89	10	116
A SSSSTI V	36	∞	918
ASSSSTLVEV	39	10	616
CAPEFKIW	215	∵ ∞∞	920
CAPEKIWEEL	215	· =	921
DSVEAHPRKI	236	01	922
DSVFAHPRKLL	236	=	923
EARGEALGL	17	6	924
EARGEALGLV	17	10	925
ESEFOAAI	102	∞	926
ESVLRNCODF	137	10	927
ESVLRNCODFF	137	=	928
ETSYVKVĽ	280	80	929
FAHPRKLL	239	∞	930
FAHPRKLLM	239	6	931
FSKASEYL	151	∞ `	932
FSKASEYLQL	151	01	933
FSKASEYLQLV	151	= '	934
FSTTINYTL	71	<b>σ</b> :	935
FSTTINYTLW	17	2 (	936
GASSFSTTI	67	ς:	93/
GASSFSTTINY	19	= •	938
GSDPACYEF	263	σ;	939
GSDPACYEFL	263	2;	940
GSDPACYEFLW	263	= •	155
HSPQGASSF	63	6	942
HTLKIGGEPHI	289	=	943
ISHLYILV	172	∞ ;	944
ISHLYILYTCL	172	= '	945
ISRKMVEL	601	∞ (	946
ISRKMVELV	601	<b>5</b>	947
SKKMVELVHF	601	= =	948
SYPCHEKAL	733	= •	646
KAEMLESV VAEMIESVI	132	00	955
NAEMLES VL	251	<b>`</b> ∝	656
KASE ILGE	153	0 0	953
KASEYLOLVF	: <u>S</u>	01	954
KTGLLIIV	198	∞	955

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	<u>(</u>	l
		L

SEQ ID NO.

A otif Peptides No. of Amino Acids	o=∞∞o=o5∞o===o==o=∞5o∞=∞o∞	o = = ∞ ∞ = º = =
Table XIII A Mage 2 B58 Supermotif Peptides Position	266 266 106 106 106 37 276 276 276 276 276 276 40 40 40 40 41 41 41 42 43 43 43 43 43 43 43 43 43 43 43 43 43	38 38 281 73 179 179 130

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	Table XIII B Mage 3 B58 Supermotif Peptides	s tif Peptides	
Sequence	Position	No. of Amino Acids	SEQ ID NO.
AAISBKVAEI	107	01	Odo
AALSRKVAELV	107	2 =	166
AASSSTL	38	8	992
AASSSTLV	38	6	993
AASSSSTLVEV	ac ac	•	999
ASSI-PTTMV ASSI-PTTMV	° %	» C	966
ASSECT	52	. ∞	166
ASSSLÕLVF	154	6	866
ASSSLQLVFGI	154	= '	666
ASSSTLV ASSSTLVEN	39	∞ ⊆	000
ASSSSILVEV	ور 10	2 ∞	1001
ATCLGLST ATCLGLSYDGL	179	° =	1003
CAPEEKIW	215	∵∞	1004
CAPEEKIWEEL	215		1005
DSILGDPKKL	236	01	9001
DSILGDPKKLL	236	= •	1001
EAASSSTL	37	ν <del>.</del>	800
EAASSSILV FARGEALGI	17	2 σ	0101
EARGEALGLV	17	01	1101
ESEFQAAL	102	8	1012
ETSYVKVL	280	∞ ;	1013
ETSYVKVLHHM	280	= •	1014
FAICLGLSY	8/ / 	ο, ο	2101
FSK A SSSI OI	151	o <u>C</u>	1017
FSKASSSLOLV	15.	2 =	8101
GASSLPTTM	67	. 6	6101
GASSLPTTMNY	29		1020
GSDPACYEF	263	ο :	1021
GSUPACTEFL	763	2 =	7701
GSVYGNWOY	137		1024
GSVVGNWQYF	137	10	1025
GSVVGNWQYFF	137	= '	1026
ISGGPHISY	293	э\ c	1027
ISYPPLHEW	299	⊅ <u>5</u>	8701 1038
ISYPPLHEWYL	299	2 =	1030
KAEMLGSV	132	80	1031
KAEMLGSVV	132	6	1032
NAGLLIIV KAGLLIIVI	198	° 0	1034
KAGLLIIVLAI	861		1035

	Table XIII.B Mage 3 B58 Supermotif Peptides	LB ootif Peptides	
Sequence	Position	No. of Amino Acids	SEQ ID NO.
KASSSLQL	153	8	1036
KASSSLQLV	153	ο 5	1037
KASSSLŲLVF I SRKVAFI	55	0 ∞	1038
LSRKVAELV	601	, 6	1040
LSRKVAELVHF	601	=:	1041
LTQHFVQENY	246 246	<u> </u>	1042
PACYEFLW	266	: ∞	1044
PSTFPDLESEF	95	=	1045
PTTMNYPL	72	∞ (	1046
PTTMNYPLW	27.	⊃ ∝	1047
VAALSKAV OAALSRKVAEL	901	∘ =	1049
QSPQGASSL	63	6	1050
RALVETSY	276	∞ (	1051
KALVEISYV RALVETSYVKV	276	<b>,</b> I	1052
RAREPUTKAEM	125	=	1054
RSQHCKPEEGL	<u> </u>	= 4	1055
SSLPTTMNY SSI PTTMNYPI	<b>%</b>	» =	1050
SSLOLVFGI	156	. 6	1058
SSLÓLVFGIEL	126	= '	1059
SSSLQLVF	155	∞⊆	0901
SSSTLVEV	64	6	1062
SSSTLVEVTL	40	= '	1063
SSSTLVEV	41	∞⊆	1064
SSTLVEVTL	42	2 6	9901
STFPDLESEF	96	10	1067
STLVEVTL	43	∞ :	8901
STLVEVTLGEV	38.	_ 9	1069
TSYVK VLHHMV	281	2 =	1001
TTMNYPLW	73	<b>00</b> (	1072
VAELVHFL VAFI VHFI I	<u> </u>	× 0	10/3
VAELVHFLLL	<u> </u>	0.00	1075
VTKAEMLGSV VTKAEMLGSVV	130 130	O II	1076 1077
	•		

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## Table XIV A Mage 2 B62 Supermotif Peptides

AISRKMVELV	801	10	1078
ALIETSYV	772	8	1079
ALIETSYVKV	772	02	1080
CODFFPVI	143	<b>0</b> 0 (	1081
CODFFPVIF	143	σ:	1082
DLESEFQAAI	88	2 :	1083
DLVQENYLEY	249	2 0	1084
Drac refew	224	n o	2801
ELSMLE VI FI VHFI I I KY	511	o C	1087
EPVTKAEM	128	? ∞	880~
EVFEGREDSV	229	<u>0</u>	6801
EVFEGREDSVF	229	=	0601
EVVEVVPI	165	∞	1601
EVVPISHLY	168	6	1092
EVVPISHLYI	168	01	1093
FLWGPRALI	271	6	1094
FPDLESEF	86	∞	1095
FPVIFSKASEY	147	==	1096
FQAAISRKM	105	6	1097
FQAAISRKMV	105	01	8601
GIEVVEVV	163	∞o :	6601
GIEVVEVVPI	163	0.	001
GLLGDNOV	989	∞ σ	1011
GLEGORATIN	200	\ <i>O</i>	2011
GLIIVIAII	200	, 01	1104
GPRALIETSY	274	01	1105
GPRALIETSYV	274	=	1106
HPRKLLMQDLV	241		1107
IIVLAIIAI	203	6	1108
ILVTCLGLSY	177	0	6011
IVLAIIAI	204	00 (	0111
KIGGEPHI	292	о <b>о</b> (	
KIGGEPHISY	292	<u>o</u> ,	1112
KIWEELSM	220	∞ :	=======================================
KIWEELSMLEV	077	_ •	4
KLLMQDLV	244	<b>x</b> 0 0	5111
KMVELVHF	711	o c	0111
NVCARILLNI I IETSVVK V	283	0	8111
LIMAI	202	<b>、∞</b>	6111
LIIVLAIIAI	202	10	1120
LLGDNQVM	189	∞	1121
LLIIVLAI	201	∞ (	1122
CLIIVLAII	201	<b>D</b>	1123

1	n.	M
E	-	

December   Position		Mage 2 B62 Supermotif Peptides	rmotif Peptides	
201 225 245 256 257 258 258 259 259 250 250 250 250 250 250 250 250 250 250	Sequence	Position	No. of Amino Acids	SEQ ID NO.
2.00 2.20				
2.25 2.45	JIVLAIIAI	201	_ 9	1124
24.6 24.6 15.8 15.8 16.0 16.0 17.0 18.0 19.0	A TRAKEFY	121	2 =	5211
245. 1586 1666 1666 1676	MODIVOENY	071	= =	120
158 8 8 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1	AOO! VOEN'S	242		1128
158 8 8 8 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1	MOLVICIA I	851	2 თ	1128
45.5 166 166 166 166 166 166 166 16	ZEVICIEV VEGIEVV	00 00 00 00 00 00 00 00 00 00 00 00 00	, <u>c</u>	0211
166 166 178 178 189 189 189 189 189 189 189 18	(LVFGIEVV	001 AS	2 σ	1131
166 178 196 197 198 198 198 198 198 198 198 198	EVILOEV GOISTO	G 4	\	1133
16.0 17.0	FOIEVE	99	, C	1511
236 247 196 88 88 89 60 171 183 184 184 184 186 188 188 199 199 199 199 199 199	FGIEVVEVV	99	? =	1134
250 178 196 196 197 198 198 198 198 198 198 198 198	HEITIKA	911	- 0	1135
158 196 196 197 198 198 198 198 198 199 199 199	OENVI EV	250	. •	1136
196 196 197 198 198 198 198 198 198 198 198	TCI OI SV	178	\ <b>0</b>	1137
196 247 198 88 88 61 171 189 189 189 189 189 194 194 194 195 196 197 198 198 199 199 199 199 199 199	KTG11	96	· •	1138
196. 247 88 8 8 8 9 9 9 171 171 171 171 171 171 171 171 1	KTG11	26	• •	1130
247.5 88 88 193 171 185 185 185 186 186 187 188 188 188 188 188 188 188	KTGI IIV	× 5	, <u>0</u> 1	1140
89 89 171 171 171 171 171 171 172 173 175 175 175 175 175 176 177 177 178 179 170 170 170 170 170 170 170 170	NI OCENY	747	? 0	1141
89 171 61 65 65 65 159 159 159 169 170 180 194 194 194 195 196 197 197 198 199 190 190 190 190 190 190 190	FEEGDBW	Š	v O	1142
193 171 66 66 65 188 189 194 194 194 194 198 198 198 198 198 198 199 190 190 190 190 190 190 190	EFFCODME	) &	, C	1143
665 665 126 136 137 138 138 139 139 139 139 139 139 139 139	WMPKTGIII	163	2 =	1144
65 148 159 159 159 159 160 170 180 190 190 190 190 190 190 190 19	HI VII V	22	: 0	1145
65 129 159 159 164 174 184 194 194 194 195 196 196 197 197 198 199 199 199 199 199 199 199	HAPOGASSE	190		1146
148 159 159 159 160 17 18 18 18 18 19 19 19 19 19 19	GASSECTTI	: %	=	1147
129   159	IFSKASEY	148	01	1148
159   159   8   8   9   9   9   9   9   9   9	TKAEMLESV	129	=	1149
159 159 36 164 164 259 250 250 250 17 18 18 18 19 19 19 19 19 19	VFGIEV	159	80	1150
159 36 194 194 195 260 260 259 64 237 138 138 149 286 8 8 8 8 139 139 139	VFGIEVV	159	6	11511
36 11 194 10 260 10 96 40 10 64 237 11 138 9 9 138 10 290 10 44 14 9 9 139 8 8	VFGIEVVEV	159	=	1152
194 194 266 96 64 64 138 138 138 149 149 139 139 149 150 160 170 180 190 190 190 190 190 190 190 19	TASSSSTLV	36	=	1153
194 260 10. 259 64 64 64 138 138 10 290 44 44 149 139 139 139	MPKTGLLI	194	10	1154
260 96 10 11 64 8 8 138 138 149 149 150 160 17 18 18 19 19 19 19	MPKTGLLII	194	=	1155
259 10 64 8 64 8 138 9 138 10 290 10 44 10 149 9 139 8	PGSDPACY	260	. 10	1156
259 64 8 8 138 138 138 149 149 139 139 139	IFPDLESEF	%	01	1157
237 8 138 11 138 10 290 10 44 10 149 9 139 8 139 9	VPGSDPACY	259	= '	1158
237 138 138 290 10 149 149 139 139 139 139 139	CASSF	25	<b></b>	1159
138 10 290 10 44 40 10 149 8 139 8	FAHPRKLLM	237	<u> </u>	091
1 290 10 290 10 14 44 10 149 9 139 8 139 9 119 119	LRNCQDF	138	<b>→</b> •	1911
10 10 10 10 10 10 10 10 10 10 10 10 10 1	LKNCQDFF	138	2 9	1162
149 9 5 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	KIGGEPHI KIDATI OTIK	290	2 5	2011
147 286 8 8 139 139 15 15 15 15 15 15 15 15 15 15 15 15 15	VEV I LUEV	‡ <u>?</u>	2 0	1165
139 8 8 139 139 14 15 15 15 15 15 15 15 15 15 15 15 15 15	FORASET	980	<b>∖</b> ∝	911
139 9	PACONE	130	> <b>«</b>	1167
	RNCODEF	951	0 6	1168
	PNCCORED	139	. =	1169

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E		- ' '		able XIV A
0				Table

	Mage 2 B62 Supermotif Peptides	motif Peptides	
Sequence	Position	No. of Amino Acids	SEQ ID NO.
PKTGLU	195	6	1170
PKTGLLII	195	10	1171
IPKTGLLIIV	195	=	1172
GSDPACY	261	6	1173
GSDPACYEF	261	=	1174
ISHLYI	170	8	1175
ISHLYILV	170	10	1176
ENYLEY	251	8	1177
ENYLEYROV	251	=	1178
EVVPISHLÝ	166	=	1179
PISHLY	691	8	1180
PISHLYI	691	6	1181
PISHLYILV	691	=	1182
VICLGLSY	176	=	1183
OLVFGI	157	8	1184
OLVEGIEV	157	10	1185
OL VFGIEVV	157	=	1186
KVLHHTLKI	283	=	1187

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	Table XIV B Mage 3 B62 Supermotif Peptides	B otif Peptides	
Sequence	Position	No. of Amino Acids	SEQ ID NO.
ALSRKVAELV	801	10	1188
ALVETSYV	772	∞	6811
ALVETSYVKV	277	01	061
DPACYEFLW	265	<b>~</b>	161
DPIGHLYI	0/1	× 0	7611
DPIGHLYIF	27.0	<b>~</b> ⊆	5611
DPKKLLIQHF	741	2 :	361
DPKKLLIQHFV	147	<u>=</u> ∝	2611
ELMEVDFI EL SVI EVE	163	∞ <b>∝</b>	190
ELSVEEVE ELVHELLIKV	511	o <u>C</u>	1198
EMI GENVENIN	134	0.	6611
ENICOS VOICE FPVTK A EM	22.5	2 ∞	1200
EVIDEGHI V	89	0 00	1201
FVDPIGHT VI	891	. 0	1202
EVDPIGHTYIF	891	=	1203
EVEGREDSI	229	01	1204
FLWGPRALV	271	6	1205
FPDLESEF	86	8	1206
FQAALSRKV	105	6	1207
FVQENYLEY	250	6	1208
GIELMEVDPI	163	. 01	1209
GLLGDNQI	00 G	∞ (	1210
GLLGDNQIM	881	<b>a</b>	1771
GLEIIVLAI	200	, <u></u>	1212
GEETI VETSV	200	2 2	1214
CPRALVEIST	4/2 774	2 =	1215
HISSER HEW	298	: 2	1216
HISYPPI HEWV	208		1217
HMVKISGGPHI	289	=	1218
IMPKAGLLI	195	6	1219
IMPKAGLLII	195	02	1220
IMPKAGLLIIV	195	=	1221
KISGGPHI	292	∞ :	1222
KISGGPHISY	292	<u>o</u>	1223
KIWEELSV	220	∞ <u>-</u>	\$77.1 1.754
KIWEELSVLEV	220	= ∞	222
KLLIÇHFV KVAFI VHF	£1=	o ∞	1227
KVLHHMVKI	285	6	1228
LIIVLAII	202	••	1229
Trddnoim	189	∞ (	1230
LLIIVLAI	201	∞ ¢	1231
LLIIVLAII	121	\ <u>0</u>	1233
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C	- 118	

_	Mage 3 B62 Supermotif Peptides	notif Peptides	
Sequence	Position	No. of	SEQ ID NO.
		Amino Acids	
LLLKYRAREPV	120		1234
LLTQHFVQENY	245	=	1235
LMEVDPIGHLY	166	=	1236
LPTTMNYPLW	71	01	1237
LQLVFGIELM	158	10	1238
LVETSYVKV	278	6	1239
LVEVTLGEV	45	6	1240
LVFGIELM	091	∞	1241
LVFGIELMEV	091	10	1242
LVHFLLLKY	116	6	1243
MLGSVVGNW	135	6	1244
MLGSVVGNWQY	135	=	1245
MPKAGLLI	961	88	1246
MPKAGLLII	961	6	1247
MPKAGLLIIV	196	10	1248
MVKISGGPHI	290	01	1249
NQEEEGPSTF	88	01	1250
NQIMPKAGLLI	193	=	1251
PIGHLYIF	171	8	1252
POGASSLPTTM	65	=	1253
PVTKAEMLGSV	129		1254
OIMPKAGLLI	194	01	1255
<b>ÓIMPKAGLLII</b>	194		1256
<b>ÓLVFGIELM</b>	159	6	1257
QLVFGIELMEV	159	=	1258
QVPGSDPACY	260	10	1259
RQVPGSDPACY	. 259	=	1260
SLPTTMNY	70	8	1261
SLPTTMNYPLW	70	=	1262
SLQLVFGI	157	∞	. 1263
SLQLVFGIELM	157	= '	1264
SVGNWQY	38	∞ (	1265
SVORWOLF	130	<b>→</b> ⊆	9971
TI VEVTI GEV	130	2 5	/971
TMNYPLWSOSY	74	2 =	1269
TOHFVOENY	247	. 6	1270
VLHHMVKI	286	. ∞	1271
VPGSDPACY	261		1272
VPGSDPACYEF	261	=	1273
VQENYLEY	251	8	1274
VQENYLEYRQV	251	= •	1275
VVGNWQYF	39	× c	1276
V CON WOLFED V	139	<b>^</b> =	1277
WOYFEPVI	143	. ∞	1279
	2	•	

	Table XI	VB	
	Mage 3 B62 Supermotif Pept	motif Peptides	
Sequence	Position	No. of Amino Acids	SEQ ID NO.
YFFPVIF	143	6	1280
ATCLGLSY	176	=	1281
WSOSY	77	8	1282
LHEWV	301	8	1283
CVLHHM	283	8	1284
:VLHHMV	283	6	1285
:VLHHMVKI	283	=	1286

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	AT .	TARE & AUT MOUNT EDUNES WITH DINGING I	Zala	
Sequence	Position	No. of Amino Acids	A*0101	SEQ ID NO.
ASSFSTTINY	89	10	0.1700	1287
GASSFSTTINY	29	=	0.0047	1288
GGEPHISY	294	. 000	-0.0021	1289
IFSKASEY	150	•	0.0023	1290
LMQDLVQENY	246	10	0.0450	1291
MQDLVQENY	247	6	1.5000	1292
PGSDPACY	262	000	-0.0021	1293
PRALIETSY	275	6	-0.0006	1294
SFSTTINY	70	œ	-0.0021	1295
SSFSTTINY	69	0	0.0430	1296
VQENYLEY	251	80	-0.0021	1297
VTCLGLSY	179	8		1298
VVEVVPISHLY	166	=	0.2000	1299

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_	a	Table XV B Mage 3 A01 Motif Peptides with Binding Data	g Data	
dnence	Position	No. of Amino Acids	A*0101	SEQ ID NO.
SSLPTTMNY	89	10	2.6000	1300
TCLGLSY	179	. eo	0.1100	1301
VDPIGHLY	168		18,0000	1302
ASSLPTTMNY	29	=	0.0390	1303
SVVGNWOY	137	6	0.0500	- 1304
ATCLGLSY	177	01	0.0020	1305
GGPHISY	293	6	0.0370	1306
ISGGPHISY	292	01	0.0011	1307
SSVVGNWQY	136	01	0.0020	1308
MEVDPIGHLY	991		7.5000	1309
TOHFVOENY	246	00	0.2600	1310
<b>JSDPACY</b>	262	•	-0.0021	1311
SALVETSY	275	6	0.0011	1312
SLPTTMNY	69	6	0.0550	1313
MNYPLWSOSY	74		0.0830	1314
OENYLEY	251	.∞	-0.0021	1315

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PRH         SS         No of         A 1000           WCRRA         257         1         0.0003           WCRRA         267         1         0.0003           WCRA         267         1         0.0003           WCRA         267         1         0.0003           PHEK         267         1         0.0003           PHEK         267         1         0.0003           CCA         20         1         0.0003           MADA         212         1         0.0003           LVF         128         1         0.0003           LVF         134         9         0.0003           LVF         145         9         0.0003           LVF         145         9         0.0003           LVF         145         9         0.0003           NA         100         8         0.0003           NA         100			Mage 2 A03 Motif Peptides with Binding Data	Data	
267 267 267 267 267 267 267 267 267 267	Sequence	Position	No. of Amino Acids	A*0301	SEQ ID NO.
267 10 00000 000000 000000 000000 000000 0000	AADSPSPPH	55	o	0 0003	1316
2.07 2.07 2.08 2.10 2.27 2.27 2.27 2.27 2.27 2.24 1.45 2.24	ACYEFLWGPR	267	. 9	0.0032	1317
25. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27	ACYEFI, WGPRA	267	2 =		1318
250 200 0000 00000 00000 00000 00000 00000 0000	HddSdSUV	35	œ		1319
277 278 279 277 277 277 277 277 277 277 277 277	AIECIDCAPEEK	01.0	> =	00000	1330
227 2 9 0 0003 24 4 9 9 0 0003 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MINIEGICA	202	- 5	6000.0	1220
227 9 1 0 0003 227 1 1 1 0 0003 228 8 10 0 0002 249 10 0002 249 11 0 00047 250 8 8 0 00047 251 8 8 0 0005 252 253 8 8 0 0005 252 254 8 8 0 0005 253 254 8 8 0 0005 254 8 8 0 0005 255 255 8 8 0 0005 257 258 8 8 00005 258 8 00005 259 9 00005 250 11 0 0005 251 11 0 0005 252 254 8 8 00005 253 11 0 00005 254 11 0 00005 255 11	AICE KMVET VU	,0 <b>7</b>	2:		1251
227 227 237 249 249 249 250 250 250 250 250 250 250 250 250 250	NOVO VICTORIA	<u>8</u> 2	= «	6000	7751
27.7 27.7 27.7 27.7 27.7 27.7 27.7 27.7	ALGL V GACA	77	6	0.0003	1525
1377       9       0.00810         486       8       0.0002         145       9       0.0002         150       8       0.0002         150       8       0.0002         249       10       0         249       11       0.0004         236       8       0.0004         237       8       0.0004         238       9       0.0004         240       9       0.0004         250       9       0.0002         250       9       0.0002         250       9       0.0002         250       9       0.0004         250       9       0.0002         250       9       0.0003         250       9       0.0004         115       9       0.0004         116       9       0.0004         117       0.0004       0.0004         110       0.0004       0.0004         110       0.0004       0.0004         111       0.0004       0.0004         111       0.0004       0.0004         111       0.0004       0.0004	<b>ALGLVGAQAPA</b>	22	=		1324
154   9   0   0   0   0   0   0   0   0   0	LIETSYVK	277	6	0.0810	1325
68       10       00009         145       9       00002         100       9       00004         249       11       00047         236       8       00004         237       8       00004         237       8       00002         237       8       00002         249       00002       00002         250       8       00002         251       8       00000         252       9       00000         252       9       00000         252       9       00000         252       9       00000         115       11       00000         115       11       00000         100       00000       00000         101       00000       00000         102       00000       00000         103       00000       00000         100       00000       00000         100       00000       00000         100       00000       00000         100       00000       00000         100       00000       00000	SEYLQLVF	154	6	0.0002	1326
145       9       0.0002         100       9       0.0002         249       10       0.0004         236       8       0.0004         236       8       0.0004         237       8       0.0004         237       9       0.0002         237       10       0.0002         240       8       0.0003         250       8       0.0002         270       8       0.0002         271       9       0.0002         272       9       0.0003         273       10       0.0003         274       8       0.0006         115       9       0.0006         115       11       0.0006         100       0.0006       0.0006         111       0.0007       0.0006         110       0.0007       0.0006         280       10       0.0007         280       10       0.0007         280       0.0007       0.0007         280       0.0007       0.0007         280       0.0007       0.0007         10       0.0007       0.0007	SSFSTTINY	89	9	6000 0	1327
145 165 160 160 160 160 160 170 180 180 180 180 180 180 180 180 180 18	TEEDOTA	33	2 •		1230
14.5 14.5 10.0002. 100	C C C C C C C C C C C C C C C C C C C	76	•	60000	0751
145 100 8 8 100 100 100 100 100 100 100 100	JEFVIESK.	<del>(4</del> )	<b>5</b>	0.0002	6751
100 100 249 249 110 236 236 8 8 8 8 8 237 238 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	PFPVIFSKA	145	01		1330
249 100 249 249 249 249 249 249 249 249 249 249	<b>JESEFQA</b>	100	∞		1331
249 10 0 00047 236 8 8 11 0 0 00047 236 8 8 8 0 00021 235 235 9 9 0 00002 235 235 235 232 232 232 234 8 8 224 234 235 234 8 8 224 234 8 8 224 234 8 8 224 234 8 8 224 234 8 8 224 234 8 8 224 8 8 8 0 00002 234 115 9 9 0 00002 234 115 9 9 0 00002 234 115 9 9 0 00002 234 115 9 9 0 00002 234 115 9 9 0 00002 234 115 9 9 0 00002 234 115 9 9 0 00002 234 115 9 9 0 00002 235 235 235 235 235 235 235 235 235 23	LESEFOAA	100	O		1332
249     110     0.0047       236     9     0.0004       236     9     0.00021       21     10     0.0003       235     9     0.0003       270     8     0.0002       104     9     0.0002       232     9     0.0002       234     8     0.0004       235     10     0.0016       236     11     0.0045       115     10     0.0006       137     11     0.0002       280     10     0.0002       280     10     0.0002       280     10     0.0002	I VOENVI EV	946	\ <u>-</u>		1333
236 236 237 238 238 239 231 231 232 233 232 232 234 24 252 254 254 255 256 257 258 258 258 258 258 258 258 258 258 258	L VOENSTERS	240	> =	1,000	000
236 9 8 0.00021 21 8 8 0.00021 235 9 0.0003 236 9 9 0.0003 237 10 8 8 0.0002 237 8 8 0.0002 237 8 8 0.0003 237 8 8 0.0003 237 8 8 0.00016 238 11 0.00016 239 9 0.00016 230 11 0.00016 231 11 0.00016 232 11 0.00016 233 11 0.00016 234 11 0.00009 235 11 0.00009 236 10 0.00002 237 11 1 0.00009 238 10 0.00002 238 10 0.00002 239 11 0.00009 239 239 10 0.00002	LVCENTLETA	647	= '	0.0047	1334
236 21 21 21 21 21 21 235 235 236 237 237 237 24 24 24 24 24 25 25 25 25 25 25 26 27 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	SVFAHPR	236	∞	-0.0004	1335
21   8   0,0003   235   9   9   0,0003   226   8   8   0,0002   217   9   9   0,0002   218   8   0,0003   227   224   8   8   224   11   0,0004   225   115   11   0,0009   226   115   11   0,0009   227   137   11   11   228   229   0,0002   229   224   8   8   220   224   11   0,0009   220   220   220   221   222   223   222   223   224   223   224   225   225   225   225   226   226   226   227   227   228   2	SVFAHPRK	236	6	0.0021	1336
21 10 0,0003 235 235 9 9 0,0003 270 8 8 0,0002 104 9 9 0,0002 232 8 8 0,0003 232 9 0,0003 234 8 8 0,00045 115 11 0 0,001 115 117 11 0,0000 100 0,0002 236 11 0 0,0001 137 11 10 0,0002	ALGLVGA	21	∞		1337
235 235 270 88 104 88 104 104 88 212 212 9 0.0002 232 232 232 234 88 224 11 11 224 111 113 114 115 110 0.0001 110 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002	ALGLVGAQA	21	01	0.0003	1338
235 270 270 270 270 270 270 271 271 272 273 273 273 273 273 273 273 274 275 276 277 277 277 277 277 277 277 277 277	DSVFAHPR	235	6		1339
270 8 8 0.0002 104 9 9 0.0002 212 9 0.0003 232 8 8 0.0003 234 8 8 0.0016 115 115 9 0.0016 116 117 110 0.0010 117 110 0.0002 280 9 0.0002	DSVFAHPRK	235	10		1340
104 8 8 0.0002 212 9 0.0002 213 8 0.0003 223 8 0.0003 224 8 0.0016 224 11 0.0004 224 11 0.0004 224 11 0.0004 225 115 9 0.0006 226 115 11 0.0000 227 117 11 0.0000 228 0 0.0002 238 0 0.0002 24 11 0.0000	FI WGPRA	270	? ∝		1341
104 9 9 0.0002 212 9 0.0003 223 8 0.0003 224 10 0.0016 115 9 0.0016 115 10 0.0016 117 10 0.0010 100 101 0.0010 118 8 0.0010 100 0.0010 119 10 0.0002	FOAAISB	104	•		CVCI
212 9 0.0002 213 8 8 0.0003 224 8 8 0.0016 224 11 0.0016 115 10 0.0016 115 11 0.0009 102 11 0.0002 103 11 0.0002 104 11 0.0000 105 11 1 0.0000 105 11 1 0.0000 105 11 1 0.0000 105 11 1 0.00000 105 11 1 0.0000 105 11 1 0.0000	100 A A 100 V	2	•	0000	2401
114 9 0.0002 232 8 8 0.0003 232 9 9 0.0003 224 8 8 0.0016 115 9 0.0016 115 10 0.0016 116 0.0011 117 10 0.0002 102 11 0.0002 103 11 0.0002 104 0.0002 105 0.0002	FUAAISKA	40-	ς (	0.0002	1343
232 8 0.0003 232 9 9 0.0003 234 10 0.0016 224 115 9 0.0045 115 10 0.0045 116 117 11 0.0009 107 117 10 0.0010 137 11 0.0002 280 9 0.0002	GUCAFEEN	717	ς '	0.0002	1344
232 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	CLEARGEA	4	•	0.0003	1345
232 9 9 10 0.0016 224 8 8 0.0016 224 11 0.0016 115 115 11 0.0004 115 110 0.0001 110 0.0001 110 0.0001 110 0.0001 0.0002 111 111 0.0000 0.0002 111 111 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.0000 0	GREDSVF	232	∞		1346
232 10 0.0016 224 8 8 0.0016 224 11 0.0045 115 9 0.0045 115 11 0.0004 110 0.0011 134 8 8 0.0011 102 11 0.0011 137 11 0.0002 280 9 0.0002	GREDSVFA	232	6		1347
224 8 0.0016 224 11 0.0016 115 11 10 0.0045 117 11 0.0066 118 8 0.0000 102 10 0.0000 103 11 0.0000 117 11 0.0000 118 11 0.0000 119 11 0.0000 110 0.0000	GREDSVFAH	232	. 01		1348
224 11 115 10 116 0.0045 117 10 117 10 118 119 0.0061 119 10 110 0.0010 110 0.0010 111 0.0010 111 0.0002 111 0.0002	1 SMI EVF	224	· œ		1349
115 9 0.0001 115 10 0.0004 117 10 0.0002 107 10 0.0002 118 8 0.0001 100 0.0002 110 0.0002 1280 9 0.0002	I CMI EVEECE	, , ,	<b>&gt;</b>	31000	1350
115 10 0,0045 115 11 0,0066 117 11 0,0001 102 11 0,0001 137 10 0,0002 137 11 0,0002 137 11 0,0002	COMICE VI CON	577 511	Ξ «	2.00.0	000
115 11 0.0000 115 11 0.0001 117 10 0.0002 107 11 0.0002 117 10 0.0002 137 11 0.0002	LVALLER		<b>~</b> :	0.0045	1661
115 11 0.0011 134 8 -0.0009 102 10 0.0002 103 11 0.0010 137 10 0.0010 280 9	LVHFLLLKY	<u>S1</u>	. 01	0.0066	1352
134 8 -0.0009 102 10 0.0002 137 10 0.0010 280 9 0.0002	LVHFLLLKYR	. \$11	=	0.0011	1353
102 10 102 11 0.0002 137 10 0.0010 137 11 0.0002 280 9	MLESVLR	134	∞	-0.0009	1354
102 11 0.0010 137 10 0.0002 137 11 0.0002 280 9	SEFOAAISR	102	10	0.0002	1355
137 10 0.0002 137 11 9 280 10	SEFOAMISKK	102	=	0.0010	1356
137 11 280 9 280 10	SVI RNCODE	137	9	20000	1357
280 9 280 10	SOUTH PROCESS	137	2 =	10000	1250
280 10	TO THE TANK THE	/C	= <		000
01 082	SISTVACH	280	<b>~</b> :		9261
	SISY VA VLAR	787	2 ;		1360

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10311011 47 47 165 168	314	A # 0201	ON OI OHS
47 47 165 168	No. of Amino Acids	A-050I	SEQ ID NO.
47 165 168	6	0.0003	1362
165	10	0.0003	1363
168	10	0.0002	1364
	6	0.0002	1365
146	∞	,	1366
146	6	0.0003	1367
119	∞		1368
119	6		1369
17	=	0.0110	1370
67			1371
516	- 0		721
517	×		2751
161	∞		1373
294	•		1374
<u> </u>	• •		1375
2 ;	•		770
88	=	0.0780	1376
500	<b>∞</b> c		1377
002	•=		1378
2	= ∙	60000	
54	<b>5</b>	0.0003	6/81
263	6		1380
8		2000 O-	1381
3 6		0 0003	1382
	2 :	0.000.0	7961
7			1383
8	~~		1384
118	ď	0.0016	1385
		1000	7861
911	2	4100.0	0961
298	∞		1387
298	01	0.0074	1388
300	=		1380
967	= •	6000 6	900
5	6	0.0002	0851
586	01		1391
200	œ		1392
(3)			.0
061	**		1993
293	6		1394
300			1305
004	•		770.
503	∞		9861
177	01	0.0036	1397
801		20000	1308
60.	2:	10000	000
601	=		999
299	•	0.0340	1400
000	. =		1401
661	2 :	6000	1007
132	2	7000.0	1402
153	01	0.0002	1403
6	2 =		1404
777	2.		3071
711	**		CO#1
861	<u>e</u>		1406
285	~	0.0053	1407

0.0003 -0.0003 -0.0003 -0.0003 -0.00093 -0.0009 -0.0009 -0.0002 -0.0009 -0.0009 -0.0003 -0.0003 -0.0003 -0.0009			Table XVIA Mage 2 A03 Motif Pentides with Binding Data	Data	
206 213 213 214 215 215 216 217 217 217 217 217 217 217 217 217 217	Sequence	Position	No. of Amino Acids		SEQ ID NO.
190       9       0,0002         278       8       0,0003         278       8       0,0003         180       0,0003         280       10       0,0003         281       11       0,0003         282       11       0,0003         283       11       0,0003         284       11       0,0003         285       11       0,0003         286       11       0,0003         287       11       0,0003         288       0,0003         290       0,0003         201       0,0003         202       10       0,0003         202       10       0,0003         202       10       0,0003         202       10       0,0003         202       10       0,0003         202       10       0,0003         202       10       0,0003         202       10       0,0003         202       10       0,0003         202       10       0,0003         202       10       0,0003         202       10       0,0003	1 All AleGDCA	206			1408
237 8 8 0 0 0003 2378 1 10 0 0003 2378 1 10 0 0003 2378 1 10 0 0003 2379 1 10 0 0003 246 1 10 10 0 0003 245 1 1 1 0 0000 245 1 1 1 0 0000 245 1 1 1 0 0000 250 250 1 0 0 0000 250 250 1 0 0 0000 250 250 1 0 0 0000 250 250 1 0 0 0000 250 250 250 1 0 0 0000 250	LGDNOVMPK	061	6	0.0002	1409
233   10   0.0003 278   8   8   0.0003 278   75   11   11   11   11   11   11   11	LGLVGAQA	23	- 00		1410
228 8 1 1 0 0004 220 100 10 10 0 0003 231 10 10 0 0003 246 11 10 10 0 0003 245 11 10 0 0003 245 11 10 0 0003 246 11 10 0 0003 247 11 10 0 0003 248 11 10 0 0003 249 248 11 10 0 0003 250 2	LGLVGAQAPA	23	01	0.0003	1411
228 228 289 189 201 201 201 202 245 245 246 246 246 247 248 248 247 248 248 248 248 248 248 248 248 248 248	LIETSYVK	278	∞	-0.0004	1412
189       189       180       0.0003         201       18       0.0009       0.0009         224       11       0.0009       0.0009         225       11       0.0009       0.0009         116       9       0.0430       0.0430         116       9       0.0430       0.0430         116       11       0.0256       0.0430         117       9       0.0002       0.0002         250       9       0.0002       0.0002         27       11       0.0009       0.0002         28       11       0.0009       0.0000         26       11       0.0009       0.0003         28       10       0.0009       0.0009         29       0.0009       0.0009       0.0009         20       10       0.0009       0.0009         20       10       0.0009       0.0009         20       10       0.0009       0.0009         20       10       0.0009       0.0009         20       10       0.0009       0.0009         20       10       0.0009       0.0009         20       10	LIETSYVKVLH	278	= •		1413
189   100   100   100   100   120   180   100   120   180   100   120   180   100   120   180   100   120   180   190	LIIVLAIIA	202	σ.;	6000	4141
245 11 8 0.0009 245 11 8 1 1 0.0009 246 11 10 0.0009 250 11 1 0.0009 250 11 1 0.0009 250 250 10 10 0.0020 250 250 10 10 0.0020 250 250 10 10 0.0002 250 250 10 10 0.0002 250 2	LEGUNOVMPK	189	0.5	0.0093	1415
245 246 255 256 257 258 258 258 258 258 259 257 257 257 258 258 258 258 258 258 258 258 258 258	LLIKVDAP	107	2 ~	6000 0-	1417
246 45 45 45 45 46 47 48 41 41 41 41 41 41 44 44 44 44 44 44 44	LLMODILVOENY	245	> =		1418
225 10 0004 4 5 11 0 0004 25 11 6 8 8 8 00239 116 10 10 00239 117 8 9 00002 25 0 10 0002 27 9 9 00003 27 9 9 00003 28 8 00003 29 9 00003 20 2 8 8 00003 20 2 8 8 00003 20 2 8 8 00003 20 2 8 8 8 00003 20 2 8 8 8 00003 20 2 8 8 8 00003 20 2 8 8 8 00003 20 2 8 8 8 00003 20 2 8 8 8 00003 20 2 8 8 8 00003 20 2 8 8 8 00003 20 2 8 8 8 8 00003 20 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LMODLVOENY	246	01		1419
45       11         116       8       0.0290         116       8       0.0240         116       10       0.0240         116       10       0.0260         250       10       0.0260         250       10       0.0260         250       10       0.0002         27       8       0.0002         27       8       0.0002         28       10       0.0003         29       0.0003       0.0003         20       8       0.0003         20       8       0.0003         20       8       0.0003         303       8       0.0003         414       11       0.0002         248       8       0.0002         25       8       0.0003         27       8       0.0003         28       10       0.0003         29       10       0.0003         20       10       0.0003         24       11       0.0003         25       10       0.0003         26       11       0.0003         27       11	LSMLEVFEGR	225	01	-0.0004	1420
116   8   8   0,0200     116   10   10   0,0260     116   11   11   0,0260     1250   10   0,0260     178   9   9   0,0002     178   9   11   0,0009     142   143   10   0,0003     150   10   0,0003     160   17   18   0,0003     17   18   10   0,0003     18   0,0003     19   10   0,0003     10   10   0,0003     10   10   0,0003     11   11   11   11     12   13   14   14     14   14   11     15   16   0,0003     16   17   18     17   18   10     18   10     19   10   0,0003     10   11   11     11   11   11     12   13   11     14   14   11     15   16   17     16   17   17     17   18   18     18   18     19   19     10   10   10     10   10   10     10   10	LVEVTLGEVPA	45	=		1421
116   8   0.0220   1.16   1.	LVGAQAPA	25	∞		1422
116   9   0.0430   116   1250   125	LVHFLLLK	116	80	0.0290	1423
116   117   118   119   0.0260   117   118   119   0.0027   1250   19   0.0027   178   9   9   0.0002   178   9   9   0.0002   178	LVHFLLLKY	116	6	0.0430	1424
116	LVHFLLLKYR	116	10	0.0260	1425
250 250 178 97 178 97 97 178 97 181 181 190 0,0002 0,0002 191 190 0,0003 190 99 99 99 99 99 10 10 10 10 10 10 10 10 10 10 10 10 10	LVHFLLLKYRA	116	=		1426
250 178 97 97 178 97 178 97 178 97 179 170 170 170 170 170 170 170 170	LVQENYLEY	250	6	0000	142/
97 97 97 99 99 0.00002 227 8 8 0.00009 113 11 11 11 11 0.00009 226 111 99 99 99 99 99 99 99 99 99 99 99 99	LVQENYLEYK	750	2 (	0.0027	1428
97 11 1 0.0002 113 11 1 0.0009 1142 110 0.0000 244 114 19 0.0003 252 2 10 0.0003 303 8 8 0.0003 254 10 0.0003 305 8 8 0.0003 306 10 0.0003 307 8 8 0.00003 308 8 8 0.00003 308 8 8 0.00003 309 8 8 8 0.00003 309 8 8 11 0.00003 309 8 8 11 0.00003 309 8 8 11 0.00003 309 8 8 11 0.00003 309 8 8 8 0.00003 309 8 8 8 0.00003 309 8 8 8 0.00003	LVICLGLSY MERDI ESEE	8/1	<b>~</b> 0	60000	1429
227 113 114 115 115 117 118 119 110 110 110 110 110 110 110 110 110	MEPDI ESEEDA		\ <u>~</u>	100000	1431
113	MIEVFEGR	227		6000 0-	1432
142     10       54        266     11       31     9       99     0.0003       99     0.0003       262     8       263     8       264     8       27     8       303     8       304     8       148     10       144     8       144     10       248     8       248     8       248     8       248     8       248     8       248     8       248     8       248     8	MVELVHFLLLK	i:	· =	0.0200	1433
266 11	NCQDFFPVIF	142	01	0.0002	1434
266 11 -0,0009 31 9 0.0003 99 9 9 0 262 8 8 0.0003 2 2 10 8 8 0.0003 303 8 8 -0.0009 59 10 0.0003 148 10 0.0160 144 11 11 11	PAADSPSPPH	. 54	. 01		1435
99 99 9 0.0003 262 8 8 0.0003 262 8 8 0.0003 2 10 8 0.0003 303 8 8 -0.0009 59 10 0.0003 148 10 0.0160 144 11 11 0.0002 248 8 8 11	PACYELWGPR	266	= '	6000.0-	1436
99 10 0.0003 262 8 8 0.0003 2 2 10 8 0.0003 303 8 8 -0.0009 59 10 10 0.0160 29 11 8 8 114 144 11 11 0.0002 268 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	PAIEEQUIA	18.	<b>5</b> (	5000	(04)
262 8 8 0.0003 2 10 0.0003 303 8 0.0009 304 10 0.0160 29 11 0.0002 144 11 11 248 8 8 11 256 11 11 257 11 11 258 11	PDLESEFUA	\$ 8	ъ. <del>.</del>	0.0003	1430
262 10 2 2 8 303 8 0.0003 303 8 -0.0009 59 10 0.0160 29 11 144 10 0.0002 248 8 11	POSCOPACY	7,5	2 •	0000	1439
2 8 0.0003 303 8 0.0009 303 8 0.0009 59 10 0.0160 29 11 144 10 0.0002 144 11 248 8 11 250 0.0002	PGSDPACYEF	262	• C		1441
2 10 0.0003 303 8 -0.0009 559 10 0.0160 29 11 8 8 144 10 0.0002 144 11 11 11 248 8 8	PLEORSOH	2	2 ∞		1442
303 8 -0,0009 59 10 0.0160 148 10 0.0160 144 8 8 0.0002 144 10 10 0.0002 248 8 8 11 248 8 8	PLEQRSQHCK	2	10	0.0003	1443
29 10 0.0160 29 11 144 8 8 0.0002 144 10 10 0.0002 248 8 8 11 248 8 8 11	PLHERALR	303	∞ ∶	6000.0-	1444
148 11 0.0002 1.0 0.0002 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	PSPPHSPQGA	59	<u>0</u>	09100	1445
144 8 8 0.0002 144 10 248 8 8 11 248 8 11 256 8	OAPATEROOTA	70	2 -	00000	1440
144   10   0.0002   144   11   248   8   11   248   11   260   8   11   260   11   260   11   260	ODFFPVIF	144	: ∞		1448
144 11 248 8 248 11 260 8	<b>QDFFPVIFSK</b>	144	10	0.0002	1449
248 11 260 8	QDFFPVIFSKA	144	= •		1450
260	ODI VOENTI EV	248	0 =		1452
	OVPGSDPA	260	; ∞		1453

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		Table XVI.A Mage 2 A03 Motif Peptides with Binding Data	ling Data	
edneuce	Position	No. of Amino Acids	A*0301	SEQ ID NO.
VPGSDPACY	260	10		1454
ALIETSY	276	8		1455
ALIETSYVK	276	10	0.0200	1456
AREPVTK	125	<b>&amp;</b>	-0.0009	1457
AREPVTKA	125	6		1458
GEALGLVGA	61	01	0.0003	1459
MFPDLESEF	%	10	0.0002	1460
DPACYEF	264	∞		1461
FSTTINY	70			1462
MLEVFEGR	226	6	0.0020	1463
SFSTTINY	69	6		1464
SNOEEEGPR	87	.01	0.0002	1465
TTINYTLWR	72	2	0.0014	1466
VFAHPRK	237	. ∞	0.1410	1467
VLRNCODF	138	. 6	0.0002	1468
VLRNCÓDFF	138	01	0.0002	1469
GLLIIVLA	661	6		1470
INYTLWR	74	<b>∞</b>	0.0140	1471
LGEVPAA	49	8		1472
LKIGGEPH	290	6		1473
SYVKVLH	281	∞		1474
SYVKVLHH	281	6	0.5900	1475
TINYTLWR	7.3	6	0.0890	1476
FEGREDSVF	230	10		1477
FEGREDSVFA	230	=		1478
IFSKASEY	149	6	0.0810	1479
TRNCQDF	139	<b>&amp;</b>		1480
LRNCQDFF	139	6	0.0002	1481
TCLGLSY	179	∞		1482
TLGEVPA	48	• •		1483
TLGEVPAA	48	6	0.0003	1484
'VEVVPISH	166	6	0.0007	1485
VEVVPISHLY	166	11		1486
'VPISHLY	691	<b>∞</b>		1487
VGPRALIETSY	273	=		1488
TLVTCLGLSY	176	=		1489
VKVLHHTLK	283	10	0.0033	1490

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RR 267 107 8 6 00032  RA 1959 9 1 10 0 00006  NA 222 9 9 1 10 0 00003  NA 221 9 9 0 0 00003  NA 221 9 0 0 00003  NA 2224 9 0 0 0	Amino Acids  10 10 10 11 11 11 11 11 11 11 11 11 11	Sequence	Position	Table XVI B Mage 3 A03 Motif Peptides with Binding Data No. of	<u>ta</u> A*0301	SEQ ID NO.
Process	Process			Amino Acids		
No.	R. R.   267   10   00032   10   10   10   10   10   10   10   1	<b>.</b>	101	8		1491
NA 227 9 1 1 0 000006	NA 21	GPR	267	10	0.0032	1492
VA 2077  VA	200000 200000 200000000000000000000000	GRA F	/97	= •	0000	1493
NAME	NA 222  NA 687  NA 687  NA 687  NA 221  NA 223  NA 223  NA 224  NA 225  NA 226  NA 226  NA 227   . (	<u>861</u>	o :	0.0006	1494	
HAY 122  WHA 123  WHA 124  WHA 125  WHA	H 15 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>5</b> 5	) (c	. 01	. 00003	1495
Y   108   11   11   11   11   11   11   1	Y   108   11   11   11   11   11   11   1	74 P4	27 (	^ =	0000	1490
7.7 68	7.7 68 68 00000 000000 000000 000000 000000 00000	I.VH	1 8	~		1498
Y   68   68   10   10   10   10   10   10   10   1	Y   68   10   100009   154   154   154   154   154   154   155   154		277	= 0	0.0270	1499
154   154   155   156   157	154   179   8   9   170   17	<u> </u>	. 89	<b>,</b> 0.1	60000	200
179   179	179   179		251	≥ თ	0.001	1051
32 32 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	7. 236 8 8 6.0004 2.36 9 8 8 6.0003 2.37 2.38 8 8 6.0003 2.38 2.39 8 8 6.0003 2.39 8 8 6.0003 2.30 8 8 8 6.0003 2.31 10 10 10 10 10 10 10 10 10 10 10 10 10		179	\ <b>C</b>	-	2051
100   9   8   100   10	100 236 236 236 237 237 238 237 238 238 239 240 20003 250 250 250 250 250 250 250 250 250 250		3,6	<b>&gt;</b> •		2021
236 236 236 237 237 238 237 237 238 238 239 240003 250003	236 9 9 0.0004 236 9 9 0.0004 237 21 8 8 9 0.0003 238 238 9 0.0003 24 233 9 9 0.0003 250 8 8 8 0.0003 250 9 0.0003 250 9 0.0003 250 9 0.0003 251 104 115 11 11 11 11 11 11 11 11 11 11 11 11		25.5			505
236 8 8	236 236 236 237 238 231 231 232 233 233 233 233 233 233 234 234 234		00:	×0 (		1504
236 8 8 0,00004 237 238 8 0,00003 237 238 8 0,00003 238 238 10 0,00003 240 8 8 0,00003 250 104 8 8 0,00003 251 104 8 8 0,00003 252 252 8 10 0,00003 252 253 8 10 0,00003 253 254 8 8 0,00003 254 8 8 0,00003 255 255 256 8 0,00003 255 256 8 8 0,00003 256 257 258 8 0,00003 257 258 115 10 0,00003 258 258 116 10 0,00003 258 258 258 258 258 258 258 258 258 258	236 236 24 257 258 258 258 258 258 258 258 258 258 258	∢	20	•		1505
236 9 0.0003 21 8 8 0.0003 235 10 10 0.0003 235 10 10 0.0003 270 8 8 0.0003 270 8 8 0.0003 270 104 11 11 11 11 11 11 11 11 11 11 11 11 11	236 24 27 27 28 27 29 0,0003 27 27 27 27 27 27 27 27 27 27 27 27 27		236	œ	-0.0004	1506
21 8 8 0.0003  225 1 10 0.0003  226 255 9 9 0.0003  104 8 8 8 0.0002  105 104 9 9 0.0002  116 105 10 0.0003  CR 224 8 8 0.0003  CR 224 8 8 0.0003  CR 115 10 0.0003  TR 115 10 0.0003  TR 280 10 0.0003  TR 280 10 0.0003  TR 280 10 0.0003  TR 47 9 9 0.0003  TR 6102 11 0.0003  TR 7 116 8 9 0.0003  TR 7 116 8 9 0.0003  TR 6102 11 0.0003  TR 7 116 8 9 0.0003  TR 7 116 8 9 0.0003  TR 8 1178 9 0.0003	21 8 8 0.0003  22 23 5 9 0 0.0003  22 23 6 0.0003  23 6 0.0003  104 8 8 8 0.0002  105 104 9 8 8 0.0002  116 116 9 0 0.0003  117 116 100  118 100  119 119 119 119 119 119 119 119 119 11	~	236	. 6	-0.0003	1507
21       10       0,0003         235       10       0,0003         270       8       0,0003         270       8       0,0003         104       9       0,0002         114       9       0,0003         224       11       0,0003         115       10       0,0003         115       10       0,0003         115       10       0,0003         116       0,0002       0,0003         117       0,0002       0,0002         118       10       0,0003         119       0,0003       0,0003         110       0,0003       0,0003         111       0,0003       0,0003         114       9       0,0003         118       9       0,0003         119       0,0003         119       0,0003         110       0,0003         110       0,0003         110       0,0003         114       9       0,0003         115       0,0003         116       0,0003         117       0,0003         118       0,0003	235 235 236 237 238 239 240 104 212 214 224 224 224 228 280 280 280 280 280 280 280 280 280		21	· œ		1508
235 235 236 237 238 8 8 8 8 104 104 8 8 8 105 104 104 11 11 11 11 11 11 11 11 11 11 11 11 11	235 235 236 237 238 238 239 240 2000 2000 2000 210 211 212 224 224 224 224 224 224 224 224	. 6	; ;	o <u>S</u>	0.0003	0051
235 10 0.0003 270 8 8 104 8 0.0003 270 8 8 105 9 0.0002 212 9 9 0.0003 224 8 8 0.0003 224 8 8 0.0003 225 115 10 0.0005 226 115 10 0.0001 227 115 10 0.0001 228 116 10 0.0001 228 11 0.0002 230 9 0.0003 247 9 9 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003 250 10 0.0003	235 10 0 0,0003 270 8 8 0,0003 270 8 8 0,0003 271 9 0,0003 272 11 0,0003 273 10 0,0003 274 11 0,0003 275 115 10 0,0003 276 117 11 0,0003 277 118 11 0,0003 278 119 9 0,0003 278 119 9 0,0003 278 119 9 0,0003 278 119 9 0,0003 278 119 9 0,0003 278 119 9 0,0003 288 119 0,0003 288 119 0,0003 288 119 0,0003 288 119 0,0003 288 119 0,0003 288 119 0,0003 288 119 0,0003 288 119 0,0003	ξ,	73.5	2 ∢	0000	0131
255 8 8 0.0003 104 8 8 0.0002 105 106 111 0.0002 212 9 0.0003 165 165 111 0.0003 112 111 0.0003 113 111 0.0005 115 110 0.0005 102 111 0.0002 280 9 0.0002 280 9 0.0003 168 111 0.0003 178 9 0.0003 178 9 0.0003 178 16 8 8 0.0003 179 179 9 0.0003 179 9 0.0003 179 9 0.0003 179 9 0.0003 179 9 0.0003 179 9 0.0003 179 9 0.0003	2.25   10 104   8   8   0.0002 105   104   9   0.0002 2.16   11   0.0002 2.24   8   8   0.0003 2.24   11   0.0003 115   11   0.0002 2.80   9   0.0002 2.80   9   0.0002 2.80   9   0.0002 2.80   9   0.0002 2.80   9   0.0003 2.80   9   0.0003	<u>.</u>	557	<b>&gt;</b> :	0.0003	0161
270 104 104 105 106 107 107 108 108 109 10002 114 109 10003 115 115 115 110 110 110 110 111 110 110	270 8 8 0.0002 104 8 8 0.0002 105 11 1 0.0002 272 2 1 1 1 0.0003 274 8 8 0.0003 275 115 10 0.0005 115 10 0.0001 107 11 0.0002 280 9 9 0.0002 280 10 0.0002 108 11 0.0002 109 0.0003 119 9 0.0003 119 9 0.0003 119 9 0.0003 119 9 0.0003	×4	532	<u>o</u>	0.0003	
104   8   0.0002     104   11   0.0002     105   11   0.0003     122   9   0.0003     123   9   0.0003     124   11   0.0004     115   11   0.0005     117   10   0.0002     128   11   0.0002     129   120   10     140   8   0.0003     150   160   0.0003     160   160   0.0003     178   9   0.0003     189   0.0003     190   0.	104   8   9   0,0002     104   11   0,0002     121   9   0,0003     165   10   0,0003     155   10   0,0003     115   10   0,0004     115   10   0,0004     102   11   0,0001     103   11   0,0002     104   10   0,0003     118   10   0,0003     119   10   0,0003     119   110   0,0003     110   0,0003     111   0,0003     112   113   0,0003     114   115   10   0,0003     115   116   116     116   117   10   0,0003     117   118   8   9     119   9   0,0003     119   9   0,0003     119   9   0,0003     119   9   9     110   110   110     111   110   110     112   113   110     113   114   115   115     114   115   115   115     115   115   115     116   117   115     117   117   117     118   118   118     119   119   119     110   110   110   110     110   110   110   110     110   110   110   110     110   110   110   110     110   110   110   110     110   110   110   110     110   110   110   110     110   110   110   110     110   110   110   110     110   110   110   110     110   110		270	••		1512
104	104   9   0,0002     121   9   0,0002     14   9   9   0,0003     15   10   10   0,0003     15   11   0,0004     11   0,0004     11   0,0004     11   0,0001     10   0,0002     10   0,0002     10   0,0002     10   0,0003     11   0,0003     12   13   0,0003     14   14   8   8   0,0003     15   16   8   8     16   16   8   8     17   18   8   9     18   19   10     19   10   10     10   10   10     11   10   10		8	∞		1513
212       9       0.0002         14       9       0.0003         165       10       0.0003         224       8       0.0003         224       11       0.0004         115       10       0.0045         115       10       0.0045         115       11       0.0006         102       11       0.0002         103       10       0.0002         280       9       0.0002         168       9       0.0003         178       9       0.0003         146       8       0.0003         119       8       0.0003	212 9 0.0002 14 9 0.0003 224 8 8 0.0003 224 8 0.0003 115 10 0.0003 115 11 0.0005 117 11 0.0002 280 10 0.0002 280 10 0.0002 10 0.0002 11 0.0003 11 0.0003 11 0.0003 11 0.0003 11 0.0003 11 0.0003 11 0.0003 11 0.0003 11 0.0003	<b>~</b>	201	6	0.0002	1514
212     9     0,0002       165     10     0,0003       224     8     -0,0003       224     11     -0,0009       115     10     0,0045       115     10     0,0066       116     11     0,0001       102     11     0,0002       280     9     0,0002       168     9     0,0003       178     9     0,0003       146     8     0,0003       119     8     0,0003	212     9     0.0002       14     9     0.0003       165     10     0.0003       224     8     0.0003       224     8     0.0003       115     11     0.0045       115     11     0.0045       116     11     0.0045       102     10     0.0002       280     9     0.0002       108     11     0.0002       108     11     0.0002       108     11     0.0003       178     9     0.0003       119     8     0.0003       119     8     0.0003       119     9     0.0003       119     8     0.0003	KVA	104	=		1515
14     9     0.0003       224     8     0.0003       224     11     -0.0009       115     9     0.0045       116     10     0.0045       117     10     0.0002       102     11     0.0002       280     9     0.0002       280     9     0.0002       168     9     0.0003       178     9     0.0003       146     8     0.0003       119     8     0.0003	14     9     0,0003       224     8     -0,0009       224     11     -0,0009       115     10     0,0045       115     10     0,0001       102     11     0,0001       103     10     0,0002       280     9     0,0002       168     9     0,0003       178     9     0,0003       178     9     0,0003       146     8     0,0003       119     8     0,0003       119     8     0,0003       119     9     0,0003       119     8     0,0003	<b>×</b>	212	: 6	0.0002	1516
165 224 8 8 224 11 11 115 115 116 117 117 117 117 117 117 117 117 117	165 224 8 8 224 8 11 11 115 115 116 117 117 117 117 117 117 117 117 117		14	` 0	0.000	7151
224 8 8 -0.0009 224 11	224 8 8 6.0009 115 10 0.0045 116 117 10 0.0002 280 280 10 0.0002 280 10 0.0002 168 9 0.0002 168 11 0.0003 178 9 0.0003 178 9 0.0003 178 9 0.0003 178 9 0.0003 178 9 0.0003 179 9 0.0003	. 7	: 32	\ <u>-</u>	0.000	8151
224 11 115 10 116 0.0045 117 10 107 11 108 10 108 10 109 0.0002 280 9 0.0002 168 11 168 11 178 9 0.0003 178 9 0.0003 178 9 0.0003 178 9 0.0003	224 11 115 10 116 0.0045 117 10 100 0.0002 100 0.0002 280 9 0.0002 100 0.0002 101 0.0002 102 111 0.0002 103 0.0003 1146 8 8 0.0003 1146 8 8 0.0003		60: PCC	2 ∘	50000	9151
115 9 0.0003 115 10 0.0004 110 110 0.0011 102 111 0.0002 280 9 0.0002 168 9 0.0003 178 9 0.0003 178 9 0.0003 178 9 0.0003 178 9 0.0003	115 9 0.0003 115 10 0.00045 116 10 0.0001 102 11 0.0002 280 9 0.0002 168 9 9 0.0003 178 9 0.0003 178 9 0.0003 178 9 0.0003 178 9 0.0003 179 9 0.0003	40	+77 FCC	o :	. 0000	6161
115   176	115   176   0.0045     115   176   0.0066     117   178   9   0.0003     118   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   0.0003     119   9   9   0.0003     119   9   9   0.0003     119   9   9   0.0003     119   9   9   9     119   9   9   9     119   9   9   9     119   9   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     110   9   9     1	ב מ	477	= •	-0.0003	0751
115 117 10000 116 117 117 10000 107 117 10000 108 109 0.0000 109 0.0000 119 8 0.0000	115   170	_	2:	<b>5</b> (	0.0045	1751
115 111 0,00011 102 10 10 0,0002 280 9 9 0,0002 168 10 0,0002 47 9 0,0003 178 9 0,0003 146 8 8 0,0003	115 111 0,00011 102 10 10 0,0002 280 9 9 0,0002 168 10 0,0002 47 9 0,0003 178 9 0,0003 178 9 0,0003 146 8 8 0,0003 119 9 0,0003	×	22	0.	0.0066	1522
K 102 10 0,0002 280 9 0,0002 168 9 0 0,0002 168 9 0 0,0003 178 9 0,0003 178 9 0,0003 146 8 8 0,0003	K 102 10 0,0002 102 11 0,0002 280 9 0,0002 168 9 0 0,0003 47 10 0,0003 178 9 0,0003 146 8 8 0,0003 119 9 0,0003	KYR	115	=	0.0011	1523
K     102     11     0.0002       280     9     0.0002       168     9     0.0002       168     1†     0.0003       47     10     0.0003       178     9     0.0003       146     8     0.0003       146     8     0.0003       119     8     0.0003	K     102     11     0.0002       280     9     0.0002       168     9     0.0002       168     11     0.0003       47     10     0.0003       178     9     0.0003       146     8     0.0003       119     8     0.0003       119     9     0.0003       119     9     0.0003	SR	102	0_	0.0002	1524
280 9 9 0.0002 168 10 0.0002 178 9 9 0.0003 178 9 9 0.0003 178 9 9 0.0003 178 9 9 0.0003 178 9 9 0.0003 178 9 9 0.0003 179 146 8 8 0.0003 179 179 9 0.0003 179 179 9 0.0003 179 179 179 179 179 179 179 179 179 179	280 9 280 10 168 10 0.0002 168 114 0.0003 119 119 0.0003 119 119 119 119 119 9 0.0003 119 119 9 0.0003 119 8 119 9 9	SRK	102	=	0.0002	1525
280 10 0.0002 168 11 0.0002 47 9 0.0003 47 10 0.0003 178 9 9 0.0003 146 8 0.0003	280 10 0.0002 168 11 0.0002 47 9 0.0003 47 10 0.0003 178 9 0.0003 146 8 8 0.0003 119 8 0.0003	<b>1</b> 1	280	. •		1526
168     9     0.0002       168     11     0.0003       47     9     0.0003       178     9     0.0003       146     8     0.0003       119     8     0.0003	168     9     0.0002       168     11     0.0003       47     9     0.0003       178     9     0.0003       146     8     0.0003       149     8     0.0003       119     9     0.0003       119     9     0.0003	王	280	, 01		1527
F   168	F   168   11   0,0003   1   1   1   1   1   1   1   1   1		891	2.0	0.0002	1528
4 47 9 9 0,0003 4A 47 10 0,0003 7 178 9 0,0003 7 146 8 0,0003 146 9 0,0003	4 47 9 9 0,0003 14 47 10 0,0003 178 9 0,0003 146 8 0,0003 146 9 0,0003 119 8 0,0003	#	891	· =		1529
17 10 0,0003 178 9 0,0003 146 8 0,0003 146 9 0,0003	178 10 0,0003 178 9 0,0003 146 8 0,0003 119 8 0,0003		47	_ 0	0 0 0 0	1530
178 9 0.0003 146 8 0.0003 146 9 0.0003	178 9 0.0003 146 8 0.0003 146 9 0.0003 119 8	. <	7	` <u>-</u>	0.000	1531
146 8 0.0003 1.146 9 0.0003 1.19 8	176 8 6 0.0003 119 8 119 9	<b>\$</b>	7 .	2 ∢	0000	1631
146 8 0.0003 1.19 8	146 8 0.0003 1.19 8 1.19 9	_	1/8	<b>5</b>	0.0003	1532
146 9 0.0003 119 8	146 9 0.0003 119 8 119 9		146	∞ .		1533
∞ 5 <u>-</u>	19 8   19 8   19 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		146	6	0.0003	1534
	6 611		611	œ		1535

	i y: .	61
6		

		Table XVLB Mage 3 A03 Motif Peptides with Binding Data		
Sequence	Position	No. of Amino Acids	A*0301	SEQ ID NO.
VO IVIDOVO	030	C		255
FVOENTIEVE	250	61	9000	1538
GASSLPTTMNY	29	2 =		1539
GDCAPEEK	213	∶∞		1540
GDNQIMPK	161	8		1541
GDNQIMPKA	161	ο:	0.0003	1542
GDPKKLLIQH GDWYY1150IE	240	0:	0.0003	1543
GOPANCEI OFF	240	= :		1544
GLEARGEA	15	<u> </u>		1546
GLLGDNQIMPK	881	· =	0.1300	1547
GLIIVLA	200	80		1548
GLLIIVLAIIA	200	=		1549
GLVGAQAPA	24	6	0.0003	1550
GSDPACYEF	263	6 (		1551
CSVVCNVCVE CSVVCNVCNVCVE	72.	<b>~</b> ≤	0000	7251
GSVCGNWOVER	13.	2 :-	0.0020	1554
HCKPEEGLEA	<u> </u>	01	0.0003	1555
HCKPEEGLEAR	6	:=		1556
HFLLLKYR	811	80		1557
HFLLLKYRA	81	6	0.0016	1558
HFLLLKYRAR	8 2	0.	0.0014	1559
HEVOENT LET	249	0		0951
HISYPPLH	298	_ ∝		56.7
HMVKISGGPH	289	• 0		1563
IAREGDCA	500	. ∞		1564
IFATCLGLSY	177	10	0.0005	1565
IGHLYIFA	172	∞ (		1566
IIAKEUDCA	203	o, o		/95
IIVI AIIAR	203	· 0	0 0060	1560
ISGGPHISY	293	^ 6	0.0003	1570
IVLAIIAR	204	. 90	0.0053	1571
KAGLLIIVLA	861	10		1572
KASSSLQLVF	153	01:	0.0003	1573
KISCUPHIST KVAFI VHF	292	<u> </u>		15/4
KVLHHWVK	285	o oc	0.0580	1576
LAIIAREGDCA	506	· =		1577
LGDNQIMPK	<u>6</u>	6		1578
LGDNQIMPKA	190	<u> </u>	0.0003	1579
LODENELLI QUI	ξ; τ.	<b>=</b> ∝		1581
LGLVGAQAPA	12	01	0.0003	1582

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Sequence         Position         No. of Amino Acids         Av.0301         SEQ.107           IGSVVQRWQYF         136         10         0.0003         1584           IGSVVQRWQYF         136         10         0.0230         1584           ILITYALINA         202         10         0.0230         1584           ILITYALINA         201         11         0.0220         1588           ILITYALINA         201         11         0.0022         1589           ILITYALINA         201         11         0.0022         1592           ILITYALINA         106         9         0.0029         1592           ILITYALINA         116         9         0.0029         1592           ILITYALINA         116         9         0.0029         1592           ILITYALINA         116         9         0.0029         1592           ILYETIZERA         226         11         0.0029         1592	•				
136 110 00003  202 202 9  138 189 100 00003  201 10 10 00003  201 10 10 00003  202 203 10 10 10 10 00003  203 203 10 10 10 00003  204 205 10 10 10 00003  205 205 205 205 205 205 205 205 205 205	Sequence	Position	No. of Amino Acids	A*0301	SEQ ID NO.
136	GSVVGNWOY	136	10	0.0003	1583
202 203 203 203 203 203 203 203 203 203	LGSVVGNWOYF	136	2 ==		1584
189 100000 000280	LIIVLAIIA	202	. 6		1585
189 110 00200 201 120 111 00002 201 110 110 00002 202 245 111 10 00002 245 111 00002 246 110 00002 247 248 110 00003 248 111 00003 248 111 00003 249 110 00003 250 250 250 250 250 250 250 250 250 250	LIIVLAIIAR	202	10	0.0280	1586
189 119 119 119 119 119 119 119 119 119	LLGDNQIMPK	189	01	0.0200	1587
201 110 100 000021 110 000021 110 000021 110 000021 110 000021 110 000022 110	LLGDNQIMPKA	189	=		1588
201 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LLIIVLAIIA	201	01		1589
245 11 20 8 8 -0.0009 156 11 1 0.0002 168 11 1 0.0002 225 11 10 0.0002 226 11 10 0.0003 2278 8 8 0.0004 2278 8 8 0.0004 2278 11 1 1 0.0004 2278 11 1 8 8 0.0003 2278 11 1 8 8 0.0003 2278 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LLIIVLAIIAR	201	=	0.0021	1590
1566 9 11 1 0.0002 167 168 9 11 0.0002 168 169 11 0.0002 246 110 0.0003 247 110 0.0003 248 8 8 0.0003 248 110 0.0003 249 110 0.0003 240 110 0.0003 240 110 0.0003 240 110 0.0003 240 110 0.0003 240 110 0.0003 240 110 0.0003 240 110 0.0003 240 110 0.0003 250 250 250 250 250 250 250 250 250 250	LLLKYRAR	120	80	-0.0009	1651
166   9   0   0   0   0   0   0   0   0   0	LLTQHFVQENY	245	=		1592
166   11   1   1   1   1   1   1   1	LMEVDPIGH	166	6	0.0002	1593
109   100   0,0002   100   100   0,0002   100	LMEVDPIGHLY	166	=		1594
110 0.0006 226 10 0.0006 2278 8 11 278 8 11 278 8 8 0.0003 278 116 116 110 278 220 0.0430 28 8 0.0003 29 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LSRKVAELVH	109	10	0.0002	1595
225 10 0.0006 246 10 0.0006 278 8 8 8 0.0004 278 11	LSRKVAELVHF	601	_		1596
246 10 0,00003 278 8 11 278 11 278 11 278 11 278 11 278 11 278 11 278 11 278 11 278 11 278 11 279 11 270 10003	LSVLEVFEGR	225	10	9000'0-	1597
278 8 -0,0004 45 111 6 8 8 0,0220 116 9 8 0,0430 117 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LTQHFVQENY	246	01	0.0003	1598
74	LVETSYVK	278	∞	-0.0004	1599
116 88 8 0,0220 116 9 0,0430 117 1 10 0,0003 11 1 11 11 11 11 11 11 11 11 11 11 11 1	LVETSYVKVLH	278	=		1600
116 8 8 0,0290 116 9 9 0,0430 117 10 0,0003 11 10 0,0003 11 11 0,0003 11 11 0,0003 11 11 0,0003 11 11 0,0003 11 11 0,0003 11 11 0,0003 11 11 0,0003 11 11 0,0003 11 11 0,0003 11 11 11 0,0003 11 11 11 0,0003 11 11 11 0,0003 11 11 11 0,0003 11 11 11 11 11 11 11 11 11 11 11 11 11	VEVTLGEVPA	45	=		1091
116 8 0.0250 116 10 0.0260 116 11 10 0.0260 27 296 11 10 0.0003 28 206 11 1 0.0003 31 99 9 0.0003 99 10 0.0003 262 8 8 8 0.0003 171 9 9 0.0003 27 262 8 8 0.0003 28 262 8 8 8 0.0003 29 10 0.0003 20 10 0.0003 20 11 1 2 2 0.0003 20 20 10 0.0003	VGAQAPA	. 25	80		1602
116 9 0.0430 116 11 10 0.0260 250 250 9 0.0003 31 8 8 0.0003 252 252 8 8 0.0003 252 252 8 8 0.0003 253 10 8 8 0.0003 254 11 8 8 0.0003 255 10 10 0.0003 256 11 8 8 0.0003 257 11 8 8 0.0003 258 11 8 8 0.0003 258 11 8 8 0.0003 258 11 8 8 0.0003 258 11 8 8 0.0003 258 11 8 8 0.0003	WHFLLLK	116	80	0.0290	1603
116 116 110 0.0260  27	VHFLLLKY	116	6	0.0430	1604
116 116 117	VHFLLLKYR	9119	01	0.0260	1603
27. 135 286 111 0.0003 31 8 8 0.0003 39 9 9 0.0003 59 10 10 0.0003 59 110 0.0003 262 8 8 0.0003 171 9 9 0.0003 2 2 10 8 0.0003 2 303 8 8 0.0003 2 4 8 0.0003 2 5 10 8 8 0.0003 2 5 11 10 0.0003	LVHFLLLKYRA	116	=		9091
RR 280 31 8 8 0.0003 31 8 8 0.0003 99 99 10 10 0.0003 262 262 8 8 0.0003 171 8 8 0.0003 2 2 10 10 0.0003 303 8 8 0.00003 106 9 11 0.0003	MLGSVVGNWQY	135	=		1607
266 III	MVKISGGPH	290	ο;	0.0003	8091
31 9 8 0.0003 99 99 99 9 0.0003 59 10 0.0003 262 8 8 0.0003 262 8 8 0.0003 171 8 8 0.0003 2 2 8 8 0.0003 95 11 9 9 0.0003 106 9 9 0.0003 260 8 8 0.0003	ACYELWGPK	997	= •	-0.0009	6091
262 8 0.0003 262 262 8 0.0003 263 10 0.0003 264 10 10 0.0003 27 11 8 8 0.0003 28 2 8 8 0.0003 303 8 8 0.0003 303 11 0 0.0003 24 25 10 11 0.0003 25 2 10 11 0.0003 260 8 8 0.00003	PATEEQEA	<u></u>	<b>200</b> (	,000	0191
999 10 0,0003 262 8 8 0,0003 262 10 10 8 8 0,0003 2 2 8 8 0,0003 303 8 8 0,0003 95 11 8 9 11 06 9 0,0003 260 10 0,0003	PATEEQEAA	<u></u>	<b>5</b> (	0.0003	1101
599 10 0.0003 262 8 8 0.0003 262 10 8 8 0.0003 171 8 8 0.0003 2 2 10 8 0.0009 95 11 0.0003 260 10 0.0003	PDLESEFQA	\$ 8	ъ ;	0.0003	1612
262 8 8 0.0003 262 10 8 0.0003 2 2 8 8 0.0003 303 8 8 0.0009 95 11 0.0003 260 10 0.0003	PULESEPQAA	£ 6	2 9	0.0003	5101
262 8 8 0.0003 1.71 8 8 0.0003 2.2 2 10 0.0003 9.5 11 0.0003 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	PDFPQSFQGA	60	0.	0.0003	5151
202 171 171 171 19 2 303 303 8 100 95 111 106 9 100 10 10 10 10 10 10 10 10 1	GSDFACT	797	æ S		7171
171 8 171 9 2 8 0.0003 303 8 8 -0.0009 95 111 0.0003 4 29 111 0.0003	PGSDPAC YEF	797	2.		5151
2 8 0.0003 2 10 -0.0009 303 8 8 -0.0009 95 11 06 9 0.0003 29 10 0.0003	MORLY IF	<u> </u>	∞ (		101
2 10 0.0003 303 8 -0.0009 95 11 06 9 0.0003 106 29 11 0.0003	FIGHLY IFA	<u> </u>	<b>~</b> •		9191
303 8 8 -0,0009 95 11 006 29 10 0,0003 4 29 11 260 8 260 8	PLECKSCH	<b>4</b> C	∞ ⊆	0 0003	1620
95 11 106 9 0.0003 29 10 0.0003 4 29 11 260 8	PLECASSANCA PI HEWAYI P	<b>7</b> 02	<u>⊇</u> ∞	6000 0-	1621
106 9 9 0.0003 29 10 0.0003 4 29 11 0.0003 260 8	POTEPNI ENE	36	» =		1622
29 10 0.0003 4 29 11 8 260 8 260 8	OAALSRKVA	901	: o		1623
A 29 11 260 8 260 10	OAPATEEDEA	88	. 9	0.0003	1624
260 8 260 10	OAPATEEOEAA	29	==		1625
260 10	OVPGSDPA	260	8		1626
	<b>ÓVPGSDPACY</b>	260	01		1627

ļ.	N	
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No. of Amino Acids   Amino A	Mage 3.403 Motif Ceptides with Binding Data   Aviitation Acids   Amino Acids   Amino Acids   Aviitation Aviitation Acids   Aviitation Aviitation Acids   Aviitation	-		)		
Position Amino Actids Av0301  276 125 125 125 126 18 10 10 10009 1125 294 8 8 8 10 294 10 10 10 10 10 10 10 10 10 10 10 10 10	Position Amino Acids Arion Arion Position Animo Acids Arion			Table XVLB Mage 3 A03 Motif Peptides with Bindi	ng Data	
276     10       125     8       125     9       284     8       284     8       284     8       294     8       294     9       69     9       69     9       69     9       69     0.0002       138     9       138     9       97     9       97     9       138     9       140     8       169     0.0002       169     10       169     10       169     10       169     10       169     10       169     0.0002       169     0.0002       169     10       169     10       169     0.0002       160     0.0002       170     0.0003       160     0.0003       160     0.0003       160     0.0003       160     0.0003       160     0.0003       160     0.0003       160     0.0003       160     0.0003       160     0.0003       160     0.0003       161 <t< th=""><th>276 125 125 126 19 204 204 205 205 205 206 207 208 208 208 208 208 208 208 208 208 208</th><th>Sequence</th><th>Position</th><th>No. of Amino Acids</th><th></th><th>SEQ ID NO.</th></t<>	276 125 125 126 19 204 204 205 205 205 206 207 208 208 208 208 208 208 208 208 208 208	Sequence	Position	No. of Amino Acids		SEQ ID NO.
125 254 19 19 254 254 254 254 254 254 26 27 27 27 28 28 28 28 28 28 28 29 20 00002 20002	125 264 264 264 265 266 270 287 287 281 281 281 281 281 281 281 281	A VETSYVK	276	01	06100	1629
152 264 264 264 264 264 264 264 264 264 26	125. 254 224 2254 226 227 237 237 238 138 138 138 138 138 140 150 160 160 160 160 170 170 170 170 170 170 170 170 170 17	AREDVIK	125	2 ∞	6000 0-	1630
15. 16. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17	264 264 277 70 70 69 665 67 67 68 88 88 88 88 88 88 88 88 88	APEDVTKA	361	• •		1631
264 8 8 0.0002 294 8 8 0.0009 295 8 0.0009 36 9 9 0.0002 256 9 9 0.0002 38 8 0.0002 38 8 0.0002 38 9 9 0.0002 38 9 0.0002 38 8 0.0002 38 8 0.0003 38 8 0.0003 39 8 8 0.0003 31 39 8 8 0.0003 31 39 8 8 0.0003 31 39 8 8 0.0003 31 39 9 9 0.0003 31 39 8 8 0.0003 31 39 9 9 0.0003 31 39 8 8 0.0003 31 39 9 9 0.0003 31 39 8 8 0.0003 31 39 9 9 0.0003 31 39 9 9 0.0003	234 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		9	\ <u>-</u>	0 0003	1632
294 8 8 -0.0009 70 8 8 -0.0009 71 70 8 8 -0.0009 71 70 8 8 -0.0009 72 70 9 9 0.0002 73 8 9 0.0002 74 9 8 8 9 0.0002 75 7 11 11 11 11 11 11 11 11 11 11 11 11 1	254 294 295 207 70 70 70 70 70 70 70 70 70 70 70 70 7	CEALGLYCA	61	2	2000.0	7501
237 8 8 -0.0009 70 70 8 8 -0.0009 155 8 8 0.0002 226 9 0 0.0003 138 138 8 0.0003 138 9 0.0003 138 10 0.0003 281 9 9 0.0003 281 8 8 0.0003 113 11 11 11 11 11 11 11 11 11 11 11 11	294 237 70 69 69 69 158 138 138 138 138 138 138 138 140 150 160 160 160 160 160 160 160 160 160 16	DPACYEF	264	∞		1633
237       8       -0.0009         70       8       -0.0009         69       9       0.0002         155       8       0.0002         226       9       0.0002         138       8       0.0002         138       10       0.0002         9       0.0002       0.0002         9       0.0002       0.0002         11       11       0.0002         140       8       0.0003         169       11       0.0003         169       11       0.0003         169       11       0.0003         140       8       0.0003         139       8       0.0003         145       9       0.0002         145       9       0.0002         145       10       0.0003         146       10       0.0003	237 70 69 69 155 155 88 88 138 138 138 138 149 149 150 160 160 160 160 160 160 170 180 180 180 180 180 180 180 180 180 18	GGPHISY	294	•		1634
70 155 158 158 158 158 158 158 158	70 69 155 96 138 138 138 138 138 138 149 149 169 169 169 169 169 169 169 170 18 19 19 19 19 11 11 11 11 11 11 11 11 11	GDPKK	737		6000 0-	1635
670 670 670 670 670 670 670 670 670 670	69 69 9 6 108 138 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	STATE OF THE PARTY	ĵ F	> <b>•</b>		9191
55   59   9   10   10   10   10   10   10   10	155 96 226 138 138 138 138 138 139 140 160 160 160 160 160 160 160 16	FIMA	2	•		
155     8       226     9       226     9       138     8       138     9       138     10       138     10       138     10       138     10       274     11       281     8       281     9       281     9       169     8       169     8       169     8       169     8       169     8       170     0.0003       139     8       139     8       139     8       140     8       139     8       139     8       145     9       150     0.0003       145     9       145     9       146     0.0002       147     0.0002       148     0.0002       149     0.0002       140     0.0002       141     0.0002       145     0.0003       146     0.0003       147     0.0003       148     0.0003       149     0.0003       140     0.0003       141     0.0003 <td>96 153 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10</td> <td>SLPTTMNY</td> <td>69</td> <td>6</td> <td></td> <td>1637</td>	96 153 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	SLPTTMNY	69	6		1637
96 10 00002 226 9 0 00003 138 8 8 0 00003 138 9 9 0 00002 138 9 0 00002 281 9 0 00002 281 8 8 0 0.0002 169 11 1 10 0.0003 169 11 1 10 0.0003 169 11 1 11 11 11 11 11 11 11 11 11 11 11	96 226 138 138 138 138 138 140 160 160 160 160 160 160 160 16	SSLOLVE	155	œ		1638
256     9     0.0003       138     8     0.0002       138     10     0.0002       97     9     0.0002       49     8     0.0002       281     8     0.0002       113     11     -0.0002       169     8     0.0003       169     8     0.0003       169     8     0.0016       140     8     0.0003       139     8     0.0002       139     8     0.0002       145     9     0.0020       145     10     0.0002       145     10     0.0002       145     10     0.0002	256 138 138 138 138 138 140 140 140 150 160 160 160 160 160 160 160 16		8	· -	0000	1639
138 8 8 0.0002 138 138 10 0.0002 138 10 0.0002 97 11 1 0.0002 281 8 8 0.0002 113 8 8 0.0002 140 8 8 0.0003 159 8 8 0.0003 139 8 8 0.0003 139 8 8 0.0002 139 8 8 0.0002 139 8 8 0.0002 139 8 8 0.0002 145 145 16	220 138 138 138 138 138 149 140 169 169 169 169 169 169 170 18 18 139 139 139 139 145 160 170 170 170 170 170 170	ii occasi	2 6	2 •	10000	1640
138       8       0,0002         138       10       0,0002         97       9       0,0002         97       11       0,0002         281       8       0,0002         281       8       0,0002         113       11       0,0002         169       10       0,0003         169       11       0,0003         169       8       0,0003         139       9       0,0002         139       9       0,0002         145       9       0,0002         145       9       0,0002         145       11       0,0002         145       11       0,0002         145       11       0,0002         145       10       0,0003	138 8 138 9 97 97 10 49 9 74 281 8 281 8 281 8 113 11 169 8 169 8 169 8 170 11 180 8 139 8 139 8 145 10 160 11 170 11 181 11 182 12 183 12 194 14 195 11 196 11 197 11 198 12 199 12	VLEVFECK	977	<b>5</b>	0.000	3
138       9       0,0002         138       10       0,0005         97       11       0,0002         49       8       0,0002         281       8       0,5900         281       9       0,5900         113       11       0,0002         169       10       0,0003         169       11       0,0003         169       11       0,0016         48       8       0,0016         48       8       0,0003         139       9       0,0002         145       9       0,0002         145       11       0,0002         145       11       0,0003	138 9 138 10 97 97 11 49 8 8 281 8 113 11 169 8 8 169 10 169 8 8 139 8 8 139 9 9 145 10 165 10 176 11	VVGNWOY	138	∞		<u>8</u>
138     10     0.0085       97     97     0.0002       49     8     8       281     8     0.0002       281     9     -0.0002       113     11     -0.0002       169     8     0.0003       169     8     0.0016       48     8     0.0016       48     8     0.0002       139     9     0.0002       145     9     0.0002       145     9     0.0002       145     9     0.0002       146     11     0.0002       176     11     0.0003	138 97 97 97 98 281 113 169 169 169 169 170 188 88 88 88 88 88 88 88 139 139 148 148 159 169 170 171 171 172 173 174 175 176 177 177 177 177 177 177 177	VVGNWOYF	138	6	0.0002	1642
97 97 97 97 97 97 97 97 97 97 97 97 97 9	97 97 49 49 49 48 88 113 169 169 169 170 188 88 88 88 139 139 145 16 16 17 18 19 10 11 11 12 13 14 15 16 16 17 18 18 19 10 11 11 12 13 14 15 16 16 17 18 18 19 10 11 11 12 13 14 15 16 16 17 18 18 18 19 10 10 10 10 10 10 10 10 10 10	WYCNWYOVE	38	\ <u>_</u>	0.0085	1643
97 11 20022 49 8 8 0.5002 28 8 0.0002 113 11 11 11 11 11 11 11 11 11 11 11 11	77 49 49 74 74 74 75 76 77 78 88 88 88 88 88 88 88 88	111701000	50.00	2 c	2000.0	1644
49 8 8 0.5900 281 8 8 0.5900 281 9 9 0.5900 113 11 11 11 11 11 11 11 11 11 11 11 11	97 49 74 74 28 28 28 113 169 169 170 18 8 8 8 8 8 8 8 8 8 8 8 9 139 139 145 165 176 176 176 176 176 176 176 176	ruceser	16	<b>5</b> :	2000.0	17.7
49     8       74     11       281     8       281     8       183     11       164     8       165     11       167     11       168     11       169     11       160     0.0003       170     8       180     9       181     8       182     9       183     8       184     9       185     9       186     0.0002       187     9       188     0.0002       189     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       180     0.0003       181     0.0003       182     0.0003       183     0.0003       184     0.0003 <td>49 8 281 8 281 8 113 113 9 169 8 169 8 140 8 48 8 48 8 139 9 139 9 145 10</td> <td>FPDLESEFQA</td> <td>76</td> <td></td> <td></td> <td>040</td>	49 8 281 8 281 8 113 113 9 169 8 169 8 140 8 48 8 48 8 139 9 139 9 145 10	FPDLESEFQA	76			040
281     8     0.5900       281     9     -0.0002       113     11     -0.0002       169     8     0.0003       169     11        160     11        170     8     0.0016       48     8     0.0003       139     9     0.0002       139     9     0.0022       145     9     0.0003       145     9     0.0003       176     11     0.0003	281 8 8 8 11 169 169 169 169 169 169 169 169 169	LGEVPAA	49	90		1646
281     8       281     9       281     9       113     11       169     10       169     10       169     11       140     8       48     8       48     8       48     9       139     8       139     9       145     9       145     9       146     9       147     10       148     0.0002       149     10       176     11	281 8 8 9 11 169 8 8 8 140 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	MNYPLWSOSY	74			1647
281     9     0.5900       113     11     -0.0002       169     8     0.0003       169     11     0.0003       140     8     0.0016       48     8     0.0016       48     9     0.0003       139     8     0.0022       273     11     0.0020       145     9     0.0003       176     11     0.0003	281 113 169 169 169 170 170 170 170 170 170 170 170 170 170	YVKVI H	281	· 00		1648
13	113 169 169 169 140 8 8 48 8 8 139 139 145 16 17 18 19 10 10 10 10 10 10 10 10 10 10	HH IN MAN	281	, 0	0.5900	1649
169   8   10   0.0003   140   8   8   0.0006   140   8   8   0.00016   148   8   8   0.00016   139   9   0.0002   145   145   160   110   0.0002   145   160   110   0.0003   145   160   110   0.0003   145   160   1	169 169 169 170 18 18 18 18 18 19 19 10 10 10 10 10 10 10 10 10 10	A EL VIUET I I V		\=	2000 0-	1650
10	169 169 160 170 180 180 180 180 180 180 180 180 180 18	ACCVOITCLEN	671	_ 0		1891
A 169 10 0.0003  A 169 11  A 169 8 8 0.0016  48 8 8 0.0003  139 9 0.0022  SY 273 11  145 9 0.0003  176 11	A 169 10 140 8 140 8 48 8 48 8 48 9 139 9 SY 273 11 145 10 176 11	DEIGHL 1	601	• :		600
A 169 11 140 8 00016 48 8 8 00003 48 9 00003 FF 139 9 0.0022 ISY 273 11 0.0020 I 145 9 0.0003	F 169 11 140 8 140 8 227 8 48 8 139 8 139 8 157 273 11 145 10 176 11	DPIGHLYIF	691	01	0.0003	7591
140 8 0.0016 48 48 9 0.0003 139 8 0.0022 15Y 273 11 0.0020 145 9 0.0003	140   8   8   8   8   8   8   8   8   8	DPIGHLYIFA	691	=		1653
227 8 0.0016 48 48 8 0.0003 139 8 0.0022 15Y 273 11 0.0020 15 145 9 0.0003	227 8 48 48 8 48 8 8 139 9 15Y 273 11 145 9 10 145 10 11 176 11	GNWOYFF	140	•	-	1654
48     8       48     9       139     8       139     9       139     9       13     11       145     9       145     9       145     9       16     0.0003       176     11	F 48 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9	I EVERGR	227	• •	0.0016	1655
F 139 8 8 0.0003  F 139 8 8 0.0022  ISY 273 11 0.0020  I 145 9 0.0003  I 156 11	F 139 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	TIGEVEA	48	· •		1656
139   8   0.0022	F 139 8 139 8 139 8 139 8 11 12 139 8 11 145 9 10 11 145 10 10 10	H CEVER A	2		0,0003	1657
X 273 11 0.0022 Y 273 11 0.0020 145 9 0.0003	139   8   8   9   9   9   9   9   9   9	LUEVEAA	9	•	60000	6591
Y 273 11 0.0022 145 9 0.003 145 10 0.003	7 273 11 145 9 11 145 10 176 11 176 11	VGNWQYF	139	×		000
Y 273 11 0.0020 145 9 0.0003 145 10 0.0003	7 273 11 145 9 145 10 7 176 11 6 283 10	VGNWQYFF	139	6	0.0022	629
145 9 0.0020 145 10 0.0003 176 11	145 9 145 10 176 11 1 283 10	VGPRALVETSY	273	=		0991
145 10 0.0003	145 10 176 11 10 283 10	FEPVIESK	145	O	0.0020	1991
11 921	176 11 283 10	CEDVIECK A	371	` =	0 0003	1662
11 9/1	7 17 17 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10	FFFVIFSKA	7	2:	00000	2001
	283 10	TFATCLGLSY	176	=		1993

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0.0009 0.0035 0.0007 0.0007 0.0002 0.0002 0.0003 0.0001 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0004 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002	-		Table XVII A Mage 2 All Motif Peptides with Binding Data	Data	
255 55 6 8 8 8 9 0 000000 00000000000000000000	Sequence	Position	No. of Amino Acids	A*1101	SEQ ID NO.
255 6 8 10 000035  27 7 7 1 118 8 8 10 00002  28 8 8 9 0 000003  28 9 9 0 000003  28 9 9 0 000003  28 9 9 0 000003  28 9 9 0 000003  28 9 9 0 000003  28 9 0 0 00003  28 9 0 00003  28 9 0 00003  28 9 0 0003  28 9 0 00003  28 9 0 00003  28	AADSPSPPH	55	6	60000	1665
256 267 277 277 277 277 277 278 278 278 278 27	ACYEFLWGPR	267	01	0.0035	1666
210 210 211 211 212 213 214 215 215 215 215 215 215 215 215 215 215	ADSPSPPH	56	80		1991
108 6.8 6.8 6.8 6.8 6.8 6.0022 2.2 6.00022 2.2 6.00022 2.2 6.00022 2.2 6.00023	AIEGDCAPEEK	210	= .	0.0007	1668
277 9 9 001900 1458 10 0 00260 286 8 11 0 0 00018 287 9 9 0 000018 287 9 9 0 000018 287 104 9 9 0 000018 287 287 110 288 288 288 288 288 288 288 288 288 288	AISRKMVELVH	801	=		1669
68 10 00020 249 11 0 00022 249 11 0 00022 249 11 0 00022 240 11 0 00022 240 11 0 00022 240 11 0 00022 241 11 0 00022 242 11 0 00022 243 11 0 00022 244 11 0 00022 245 11 0 00022 246 11 0 00022 247 11 0 00022 248 11 0 00022 250 11 0	ALIETSYVK	277	6	0.1900	1670
145 249 249 249 249 253 254 254 255 255 255 255 255 255 257 257 257 257	ASSFSTTINY	89	10	0.0260	1671
249 110 0.0018 225 226 8 8 111 0.00055 225 225 225 225 225 225 225 225 22	DFFPVIFSK	145	. 6	0.0022	1672
249 256 256 257 258 258 257 258 258 258 258 258 258 258 258 258 258	DLVOENYLEY	249	01		1673
236 236 237 238 238 239 240 250 250 251 252 252 252 252 252 252 253 253 253 253	DLVOENYLEYR	249	? =	0.0018	1674
256 257 258 257 257 257 257 257 257 257 257 257 257	DSVEAHPR	236	∵ ∝	00000	5291
235 235 236 237 238 237 237 238 238 238 238 238 248 258 258 258 268 27 288 288 288 29 20002 20002 20002 20002 20003 2000	OSVEA HPRK	236	ာ	0.0025	1676
232 233 234 204 206 20002 212 235 211 234 211 235 237 238 238 238 238 238 238 248 258 258 268 27 288 288 288 288 288 288 288 288 288		235	۰, ۰		1672
104 9 8 0 00002 232 110 9 0 00003 234 111	COSVICATION	73.5	<b>^</b>		1/01
104 9 9 0,00002 232 10 0 0 00003 115 11 10 0,0001 117 11 10 0,0001 118 11 10 0,0002 119 9 0,0001 110 0,0001 111 0,0002 111 0,0002 111 0,0002 111 0,0002 111 0,0002 111 1 8 8 10 0,0002 111 1 8 8 10 0,0002 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EDSVERIEN NA	67	2.6		8/01
232 212 9 9 0,00002 223	EFÇAAISK	40.	×0 (		6/91
222 224 225 225 224 227 227 227 228 228 228 228 228 228 228	EFQAAISKK	401	6	0.0002	0891
232 100008 20008 20008 20008 20008 20008 20008 20009 2	EGDCAPEEK	212	6	0.0001	1891
224 11 0,0008 115 19 0,0008 116 11 10 0,0003 117 11 10 0,0003 117 11 10 0,0003 118 11 10 0,0002 119 11 11 11 11 11 11 11 11 11 11 11 11	EGREDSVFAH	232	0.1		1682
115   115	ELSMLEVFEGR	224	=	0.0008	1683
115	ELVHFLLLK	115	6	0.0011	1684
115	ELVHFLLLKY	115	10	0.0003	1685
134   8   0,0003     102   103   104     103   104     104   105     105   107     106   107     107   107     107   107     108   107     109   107     109   107     109   107     109   109     1	SLVHFLLLKYR	115	_	0.0031	9891
102   103   104   105	MLESVLR	134	: ∞	-0.0003	1687
102 280 280 280 168 168 168 168 170 190 190 29 200 200 200 200 200 200 200 200 20	SEFOAAISR	102	01	0.0002	1688
280 280 10 280 1165 1168 1168 117 119 119 118 118 118 118 118 119 119 118 118	ESEFQAAISRK	102	=	0.0004	1689
280 165 168 168 168 168 168 170 199 19 294 8 8 111 86 111 86 9 0.0047 0.0002 118 86 111 87 111 118 88 111 89 111 80 0.0002 0.00047 0.0002 0.0002	STSYVKVLH	280	6		1690
165   165   10   0,0002   168   9   0,0002   146   8   8   0,0170   0,0002   171   111	ETSYVKVLHH	280	01		1691
168       9       0.0002         146       8       0.0170         71       11       0.0170         213       8       8         191       8       0.0047         294       8       11         86       11       -0.0002         9       11       0.0002         118       8       0.0002         298       10       0.0018         289       10       0.0018         150       8       0.0018	EVVEVVPISH	165	10	0.0002	1692
146   8   8   119   9   9   9   9   9   9   9   9	EVVPISHLY	891	6	0.0002	1693
71 119 9 0.0170 0.0170 0.0170 0.0170 0.0170 0.0170 0.0047 0.0047 0.0047 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0003 0.00003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003	FFPVIFSK	146	∞		1694
71 11 00170 67 111 8 8 191 8 8 191 8 8 111 0.0047 294 8 8 111 0.0002 9 111 0.0002 298 8 8 298 10 0.0018	FLLLKYRAR	611	6		1695
213 8 8 8 0.0047 294 8 8 0.0047 36 11	FSTTINYTLWR	71	=	0.0170	9691
213 8 8 0,0004 294 8 8 0,0004 86 11 -0,0002 9 118 8 8 0,0002 298 8 0,0018 150 8 0,0018	GASSFSTTINY	29	=		1691
294 8 8 0.0047 188 11 -0.0002 9 111 8 8 118 10 0.0002 298 8 0.0018 289 10	SDCAPEEK	213	∞		8691
294 8 0.0047 86 11 -0.0002 9 11 8 8 118 8 8 118 8 0.0002 298 10 0.0018 289 10 0.0018	SDNQVMPK	161	8		6691
188	COEPHISY	294	8		1700
86 11 -0.0002 9 111 8 8 118 10 0.0002 298 8 8 0.0018 289 10 0.0018	SLLGDNQVMPK	188	=	0.0047	10/1
9 11 118 8 118 10 298 8 298 10 289 10 150 8	SSSNQEEEGPR	98	=	-0.0002	1702
118 8 0.0002 298 8 8 0.0018 298 10 0.0018	HCKPEEGLEAR	6	=		1703
118 10 0.0002	HFLLLKYR	118	∞		1704
298 8 0.0018 289 10 0.0018	HFLLLKYRAR	118	01	0.0002	. 1705
298 10 0.0018 289 10 8	HISYPPLH	298	∞		1706
289 10 150 8	HISYPPLHER	298	10	0.0018	1707
050 050	HTLKIGGEPH	289	01		1708
	IFSKASEY	150	∞ .		60/1

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		<b>&gt;</b>		
-		Table XVII A Mage 2 All Motif Peptides with Binding Data	. Data	
Sequence	Position	No. of Amino Acids	A*1101	SEQ ID NO.
I VTCI GI SY	177	01	0.0002	1711
SRKMVELVH	109	2 0	0.0002	1712
SYPPLHER	299	6	0.0280	1713
KAEMLESVLR	132	10	60000	1714
KIGGEPHISY	292	10		1715
KVLHHTLK	285	œ (	0.0100	1716
GUNOVMPR	190	- ·	0.000	77.7
LIETSYVK IETSYVKVI U	278	<b>80</b> -	0.0027	1719
I GDNOVMPK	681	- 01	0.0014	1720
LLLKYRAR	120	? ∞	-0.0004	1721
LLMODLVQENY	245	=		1722
LMQĎLVQĚNY	246	10		1723
LSMLEVFEGR	225	01	0.0001	1724
LVHFLLLK	116	∞	0.1500	1725
LVHFLLLKY	116	6	0.0100	1726
LVHFLLLKYR	911	0.	0.0022	1727
LVQENYLEY	250	6	0000	87/1
LVQENYLEYR	250	2 0	0.0089	67/1
LVICLULSY MIEVEFOR	1/8	ν α	-0 0004	1731
MVELVHFLLLK	113	· =	0.0120	1732
PAADSPSPPH	54	:0		1733
PACYEFLWGPR	266	==	-0.0002	1734
PGSDPACY	262	∞ .		1735
PLEQRSQH	~ (	∞ :	6000	1/36
PLECKSCHCK	7 202	⊇•	0.0002	1738
PUIESK A SEV	148	o <u>c</u>	0.0033	1739
ODFFPVIFSK	144	2 0	0.0083	1740
ODLVOENY	248	. ∞		1741
<b>ODLVQENYLEY</b>	248			1742
QVPGSDPACY	260	01		1743
RALIETSY	276	∞ !		1744
RALIETSYVK	276	<u>o</u>	0.0750	1/45
KAKEPVIK	<u>5</u> £	<b></b>	000.0-	1740
SMI EVERGE	9,6	0 0	0.0220	1748
SNOFFEGPR	888	\ O	1000'0	1749
SSFSTTINY	3 66	. 6		1750
SSNOEEEGPR	87	01	0.0002	1751
STTINYTLWR	72	01	0.0910	1752
SVFAHPRK	237	∞	0.0810	1753
TINYTLWR	74	∞	0.0550	1754
т.киссерн	290	ο •		1755
TSYVKVLH	187	×		0011

	ţ	V - W
JE		
C		₩

Table XVII.A Mage 2 All Motif Peptides with Binding Data	No. of A*1101 SEQ ID NO. Amino Acids			9 0.0330 1759	8	9 0.0100 1761	11 1762	8 1763	11 1764	11 1765
	Position	281	73	149	621	991	991	691	273	176
	adneuce	SYVKVLHH	TINYTIWE	IFSKASEY	TCLGLSY	VEVVPISH	VEVVPISHLY	VPISHLY	/GPRALIETSY	ILVTCLGLSY

	C	N.		II.B
L			7	Table XVI

-		Mage 3 A11 Motif Peptides with Binding Data	Data	
Sequence	Position	No. of	A*1101	SEQ ID NO.
		Amino Acids		
ACYEFI.WGPR	267	01	0.0035	1767
ALSRKVAELVH	108	: ==		1768
ALVETSYVK	772	6	0.1700	1769
ASSLPTTMNY	89	9	0.0330	1770
ATCLGLSY	179	88		1771
DSILGDPK	236	80	-0.0003	1772
DSILGDPKK	236	6	-0.0002	1773
EDSILGDPK	235	6	0.0002	1774
EDSILGDPKK	235	01	0.0002	1775
EFOAALSR	104	. • • • • • • • • • • • • • • • • • • •		1776
EFOAAL SRK	70	» <b>•</b>	0.0001	7771
EGDCAPEEK	515		0 0001	1778
ESECULEU El MEVIDIGH	#:# 144	, <u>c</u>	0000	1779
ELINICADI IGII	201	2 =	0.003	1780
CLS TEL TI CON	511	= 0	0.001	1781
ELVAFICION ELVATORI 11 VV	) ·	<b>~</b> :	2,000	1201
ELVHFLLLAT	2:	2∶	50000	7971
ELVHFLLLKYK	<u> </u>		0.0031	50/1
ESEFQAALSR	102	01	0.0002	1784
ESEFQAALSRK	102	=	0.0004	1785
ETSYVKVLH	280	6		1786
ETSYVKVLHH	280	01		1787
EVDPIGHLY	168	6	6000'0	1788
FATCLGLSY	178	. 6	0.0004	1789
FFPVIFSK	146	. 00		1790
FLLLKYRAR	119	. 6		1791
FVOENYLEY	250	` •		1792
FVOENYLEYR	250	\ <u>C</u>	0.0012	1793
GASSI PITMNY	229	2 =		1794
GINCAPEEK	25	- ∞		1795
GDNOIMPK	161	<b>∞</b>		961
COBY I TOU	100	∞ <u>S</u>	0 000	1707
CCBUICVBBI LI	242 205	2 =	7000:0	1708
	188		0.0670	0041
CELCUINITION	22	= <	0.00.0	0001
COV VOIVACT	<u>\s</u>	<b>~</b> :		181
HUNYEEULEAR	٠ •	_ <		1081
HFLLLKYK	0	жо <b>ў</b>	0000	1802
HFLLLKYKAK	8 · ·	<u>o</u>	0.0002	1803
HFVQENYLEY	249	01		1804
HFVQENYLEYR	249	=		1805
HISYPPLH	298	∞		1806
HMVKISGGPH	289	10		1807
IFATCLGLSY	177	01	0.0004	1808
IIVLAIIAR	203	6	0.0011	1.809
ISGGPHISY	293	6	0.0002	0181
IVLAIIAR	204	∞	0.0037	1811
KISGGPHISY	292	10		1812
KVLHHMVK	285	∞	0.0190	1813

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Sequence	Mage 3 All Motif Peptides with Binding Data	g Data	
7. 139 139 139 139 150 166 166 166 166 166 166 166 166 166 16		A*1101	SEQ ID NO.
190 136 136 136 137 138 138 138 138 138 138 138 138			
7. 139 136 136 137 138 138 138 138 138 138 138 138			1814
7. \tag{3.5}  7. \tag{4.5}  8. \tag{5.5}  8. \tag{5.5}  9.			1815
7, 4 1.3 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2	_	0.0012	1816
189 189 186 186 186 186 186 186 186 186 187 188 188 188 188 188 188 188 188 188	_	0.0021	1817
201 120 166 166 166 166 166 166 170 170 170 170 170 170 170 170 170 170	-	0.0110	. 1818
120 120 166 166 166 166 135 135 135 136 137 145 145 145	201	0.0056	1819
7 7 166 166 166 166 166 166 166 166 166		-0.0004	1820
7. The state of th			1821
1 166 109 109 109 116 116 116 117 113 119 119 119 119 119 119		0.0001	1822
1 109 225 246 278 286 286 286 297 70 298 7 70 138 7 7 145 145			1823
225 246 246 278 116 116 116 116 113 200 200 200 200 200 200 200 200 200 20		0.0002	1824
74 228 228 229 229 229 229 229 229 239 249 259 259 259 259 259 259 259 259 259 25		0.0030	1825
7. 278		0.0002	1826
7. 278  R 286  P 290  P		0.0014	1827
7. 116 116 116 116 116 117 113 113 116 117 118 119 119 119 119 119 119			8281
Y 135		01500	0201
Y 115 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		00100	1830
YY 75 200 200 200 200 200 200 200 200 200 20		0.000	1831
75.75.75.75.75.75.75.75.75.75.75.75.75.7		7700:0	1631
7 286 286 286 303 303 276 276 69 69 69 69 138 138 145 145 145		20000	1032
Y Y 288 289 303 303 303 206 206 69 69 69 138 113 113 1145 115 1169		2000.0	1034
7		0.000	1836
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2000.0-	1936
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			000
3.5 260 276 276 276 237 70 69 69 113 113 1145 7		0000	183/
7. Y 200 276 276 276 277 277 27 281 281 281 113 113 1145 176 176		0.0002	1838
7. 200 7. 276 276 276 277 270 270 271 281 281 281 281 281 281 281 28		-0.0003	9839
7.6 276 276 224 224 237 237 237 237 238 238 258 258 258 258 259 257 257 257 257 257 257 257 257 257 257			1840
256 294 294 297 257 258 281 1 281 1 281 1 13 1 13 1 145 1 145 1 176			1841
254 237 237 256 69 69 226 227 227 37 57 77 78 78 78 78 78 78 78 78 78 78 78 78		0.1100	1842
294 297 70 69 226 138 25Y 27 113 113 1145 176 176 176		-0.0003	1843
237 70 69 69 226 138 281 281 1 281 113 113 114 115 117 117 117 117 117		:	1844
257 256 256 256 138 257 1 281 281 113 113 114 115 115 116 117 117 117 117 117		0.0012	1845
259 259 257 74 13 113 113 113 114 114 114 1176 1176			1846
7. 128 281 281 113 169 227 227 273 776			1847
7. 7.4 281 281 113 169 227 273 176		0.1400	1848
7.4 281 281 113 169 227 273 176			1849
281 281 113 169 227 273 145 176			1850
281 113 169 227 273 176 176			1821
113 169 227 273 176 176		0.0066	1852
169 277 273 145 176		0.0011	1853
227 273 145 176 283		1	1854
273 176 283		0.0005	1855
SY 145 VX 281 VX 281			1856
283		0.02/0	1857
		0 0061	1850
		1900:0	6001

		THE PARTY OF THE P		
Sequence	Position	No. of Amino Acids	A*2401	SEQ ID NO.
CYEFLWGPRAL	268		0.0004	1860
EFLWGPRAL	270	. 6	0.0006	1861
EFLWGPRALI	270	01	0.0097	1862
EYLOLVEGI	156	6	3.5000	1863
IFSKASEYL	150	. 6	0.0230	1864
IFSKASEYLOL	150	=	0.0950	1865
IWEELSML	221	∵∞	0.0007	1866
IWEELSMLEVF	221		0.0170	1867
KMVELVHF	112	∞	0.0005	1868
KMVELVHFL	112	6		1869
KMVELVHFLL	112	10		1870
KMVELVHFLLL	112	=		1871
LMODI VOENYI	246	=		1872
LWGPRALI	272	; ∞	0.1200	1873
LYILVTCL	175	- ∞	0.0086	1874
LYILVTCLGL	175	01	0.0140	1875
MFPDLESEF	26	6	0.0140	1876
RMFPDLESEF	%	10	0.0016	1877
SFSTTINYTL	92	01	0.0150	1878
SFSTTINYTLW	70	=	0.0280	1879
SYPPLHERAL	300	01	0.0003	1880
SYVKVLHHTL	282	01	0.1600	1881
VFAHPRKL	238	•	0.0005	1882
VFAHPRKLL	238	6	90000	1883
VFEGREDSVF	230	01	0.0004	1884
VMPKTGLL	195	: ∞	-0.0004	1885
VMPKTGLLI	195	. 6	0.2300	1886
VMPKTGLLII	195	10	0.0580	1887

Table XVIII A
Mage 2 A24 Motif Peptides with Binding Data

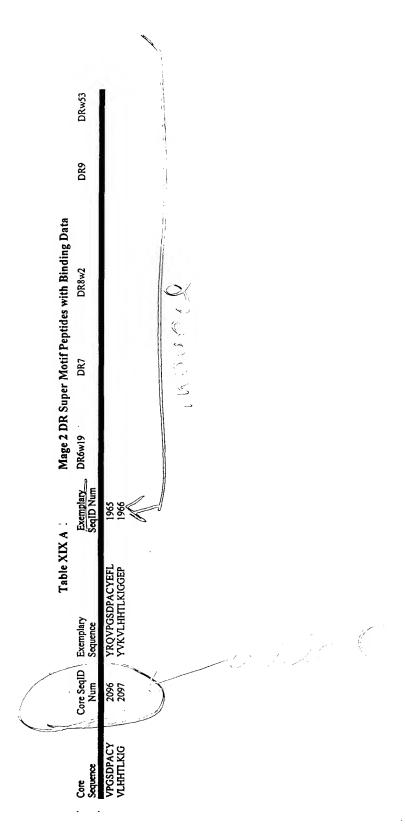
1			01	
1	,	M.		
1				

Sequence	Position	No. of Amino Acids	A*2401	SEQ ID NO.
CYEFLWGPRAL	268		0.0004	1888
EFLWGPRAL	270	. •	0.0006	1889
EMLGSVVGNW	134	.01	0.0017	1890
HFVOENYL	249	∵∞	-0.0004	1881
HMVKISGGPHI	289	=		1892
IFATCLGL	177	. ∞	0.0120	1893
IFSKASSSL	150	6	0.0160	1894
IFSKASSSLQL	150	=	0.0910	1895
IMPKAGLL	195	∞		9681
IMPKAGLLI	195	6	0.4200	1897
IMPKAGLLII	195	10	0.0500	8681
IWEELSVL	221	∞	-0.0004	1899
IWEELSVLEVF	221		0.0260	0061
LMEVDPIGHL	166	01		1061
LYIFATCL	175	•	0.0140	1902
LYIFATCLGL	175	01	0.0480	1903
NWQYFFPVI	142	6	0.5300	1904
NWOYFFPVIF	142	01	0.0170	1905
QYFFPVIF	144	∵∞	0.1200	9061
SYDGLLGDNQI	185	=	0.0026	1907
SYPPLHEW	300	∞	0.0420	1908
SYPPLHEWVL	300	10	0.5900	6061
TFPDLESEF	97	6	0.0049	0161
VFEGREDSI	230 .	6	-0.0004	1161
VFEGREDSIL	230	10	-0.0005	1912

Core SeqID         Exemplary         Exemplary         Exemplary           2044         ALGLVQAOAPATEEO         1913           2045         ALGLYQAOAPATEEO         1914           2046         GLGLSYDGLLGDNOV         1914           2047         EEKIWEELSMLEYEE         1916           2048         EEKIWEELSMLEYEE         1916           2049         EEKIWEELSMLEYEE         1916           2049         EEKIWEELSMLEYEE         1916           2049         EEKIWEELSMLEYEE         1916           2049         EKIWEELSMLEYEE         1916           2049         EKIWEELSMLEYEE         1916           2050         ERYLEYROVPGSDPA         1919           2051         EPHISTPRASESTIOL         1922           2052         EKIVLGCPPAADSPSP         1922           2053         EVILTACHARSEYLOL         1924           2054         FPVIFSKASEYLOL         1926           2055         FPVIFSKASEYLOL         1926           2054         FFVIFSKASEYLOL         1926           2055         HFLLIKYRAREPVTK         1926           2064         HFLLIKYRAREPVTKAEM         1931           2065         LIGEVPAADSPSPPHS         1942	Concessed   Conc	***	,	Tabl	Table XIX A	Mage	2 DR Sup	er Motif	Mage 2 DR Super Motif Peptides with Binding Data	ith Bindin	g Data			
2044 ACACACACACACACACACACACACACACACACACACA	2044   ACCUPACHERING   9191   34   0.0330   0.1400   0.0002     2045   DOLGONOWERTEE   9191   919   919   919   919   919     2046   DOLGONOWERTEE   9191   919	Core	Core Seq1D Num		Exemplary SeqID Num	Position	DRI	DR2wBi	DR2w282	DR3	DR4w4	DR4w15	DR5w11	DR5w12
December	2007   Color Col	LVGAQAPAT	2044	ALGLVGAOAPATEEO	1913	24	0.0330			001.0	-0.0032			
10.09         EDM PRINCE/RALE/FYPE         917         220         0.0130         0.0022           10.09         EFLWGERALIEFYPY         191         221         0.0030         0.0130         0.0022           10.09         EFLWGERALIEFYPY         191         221         0.0030         0.0030         0.0030           10.01         EFLWGERALIEFYPY         192         223         0.0003         0.0013         0.1060           10.02         EFLWGERALIEFYPY         192         223         0.0003         0.0013         0.1060           10.02         EFLWGERALIEFYPY         192         224         0.0003         0.0013         0.1060           20.03         EFLWGERALIEFYPY         192         224         0.0004         0.0003         0.0003           20.03         EFLWGERALIEFYPY         192         224         0.0004         0.0003         0.0003           20.03         EFLWGERALIEFYPY         192         227         0.0004         0.0003         0.0003           20.03         EFLWGERALIEFYPY         193         217         220         0.0004         0.0003         0.0003           20.03         EFLWGERALIEFYPY         193         217         222         0.0003	2047         ERWEELSMILEFYE         917         220         00130         00130         00022           2049         ERWEELSMILEFYE         918         221         00022         00130         00130         00022           2051         ERWEELSMILEFYE         918         221         00002         00000         00113         0,1660           2051         ERFOARDESTER         182         49         1,2000         0,0000         0,0013         0,1660           2051         ERFOARDESTER         182         18         1,2000         0,0013         0,1660           2051         ERFOARDESTER         182         18         1,2000         0,0013         0,1660           2051         ERFOARDESTER         182         18         0,0004         0,0009         0,0001           2052         GEAGLGYGOADANTE         182         18         0,0004         0,0009         0,0007           2053         GEAGLGYGOADANTE         182         18         0,0004         0,0009         0,0007           2054         GEAGLGYGOADANTE         182         18         0,0004         0,0009         0,0007           2055         GEAGLGYGOADANTE         182         12         0,0002<	ZWPK	2045	DGI I GNNOVMPKTGI	1015	0 00	0.000			0.1400	0.0033			
2048         ELWORALIETSY         1917         272           205         BYLYEROYPGSDR         1919         273           205         BYLYEROYPGSDR         1919         235           205         BYLYEROYPGSDR         192         249           205         BYLYEROYPGSDR         192         49           205         ENTICEPAAGSKRAWE         192         49           205         ENTICEPAAGSKRAWE         192         49           205         ENTICEPAAGSKRAWE         192         49           205         GEAGLOVGRAPHE         192         49           205         GEAGLOVGRAPHE         192         10           206         GLINCAGARETOR         193         11           206         LINTAGGACAFER         193         11           206         LINTAGGACAFER         193         11	20.98         ERIVERCANCESAN         1917         27.2           20.99         EXIVERCANCESAN         1919         22.5           20.50         BANLERRANCESAN         1919         22.5           20.51         EKINECLSANLESKANTEL         192         29.5           20.52         ERIVERCANCESCAN         192         29.5           20.53         EKILCEVAALSKANTEL         192         19.6           20.54         ERIVERCANCESCANTEL         192         19.6           20.55         EKILCEVAALORAPATE         192.2         19.7           20.56         GELVACAORAPATE         192.2         19.7           20.56         GELVACAORAPATE         192.2         10.0           20.50         GELVACAORAPATE         192.2         20.0           20.50         GELVACAORAPATE         192.2         20.0           20.50         H.YILLYCARGAPATE         192.2         20.0           20.50         H.YILLYCARGAPATE         193.2         20.0           20.50         H.YILLYCARGAPATE         193.2         20.0           20.60         LINCARGAPATE         193.2         20.0           20.61         LILINARIAGE         193.2         20.0	MLE	2047	EEKIWEELSMLEVFE	1916	55 50 50 50 50 50 50 50 50 50 50 50 50 5				0.0130	70000			
2049 EKURELSMECKER         1918         221           205 EBYLEFRONGESPRED         1919         225           205 EBYLEFRONGESPRED         1920         285         -0.0003           205 EFFORMSKERENTOM         1920         198         255           205 EFFORMSKERENTOM         1921         194         1.2000         0.0013         0.1660           205 EFFORMSKERENTOM         1921         194         1.2000         0.0013         0.1660           205 EFFORMSKERENTOM         1921         194         1.2000         0.0019         0.0035           205 EFFORMSKERENTOM         1922         192         194         1.0000         0.0019         0.0003           205 GULPATALAINEDOM         192         1.200         0.0006         0.0009         0.0003         0.0003           205 GULPATALAINEDOM         192         1.20         0.0100         0.0003         0.0003           206 HALLIVATALEDOM         193         2.0         0.0003         0.0003         0.0003           206 HALLIVATALGEOM         193         2.0         0.0120         0.0003         0.0003           206 HALLIVATALGEOM         193         2.0         0.0003         0.0003         0.0003           2	2049 EKUNEGNALEYREG         1918         221           2050 ENTLEYROVPGSDPA         1920         225         -0.0033           2051 EPHYSTRAPPLHEALR         1920         298         -0.0033           2052 ENTLEYROVPGSDPA         1921         194         1.2000         0.0133         0.1600           2052 ENTLEYROVPGSDPA         1922         22         49         1.2000         0.0013         0.1600           2052 ENTLEYROVPGSDPA         1922         22         22         0.0100         0.0013         0.1600           2053 ENTLEYROVPGSDPA         1922         22         22         0.0100         0.0013         0.1600           2056 GEALGLYGARDATT         1922         22         20         0.0100         0.0013         0.0003           2057 GEALGLYGARDATT         1922         20         0.0100         0.0013         0.0003           2058 HTLLKYRAREPTK         1932         10         1.0000         0.0013         0.0003           2060 HLYLLKYRAREPTK         1933         1.0000         0.0013         0.0003         0.0003           2061 HLYLLKYRAREPTK         1933         1.0000         0.0013         0.0003         0.0003           2062 LLILYGARAREPTK         1934	LET	2048	<b>EFLWGPRALIETSYV</b>	1917	272								
2050         EWILKPRONPGSDPA         1919         235           2051         EERHSTRONPGSDPA         1919         235           2052         EERHSTRONPGSDPARISKRAFEL         192         49           2053         FPWITKSKASPLOL         192         49           2056         FPWITKSKASPLOL         192         49           2056         FPWITKSKASPLOLOV         192         49           205         FPWITKSKASPLOLOV         192         49           205         GEALGUVAGARATE         1922         49           205         GEALGUVAGARATE         192         22           205         GEALGUVAGARATE         192         22           205         GEALGUVAGARATE         192         22           206         GEALGUVAGARATE         192         20           206         GEALGUVAGARATE         192         20           206         HATLATGAGAGARATE         193	2000   BYILLERRONPGSDRA   1919   255   250   2	<b>J</b> LEV	2049	EKIWEELSMLEVFEG	1918	<u>12</u>								
2025         ESPHSYPERALR         1920         298         -0,0003           2025         ESPHSYPERALR         192         49         1,000         0,0113         0,1600           2025         EVILGENAADSPR         192         49         1,200         0,0020         1,000         0,0113         0,1600           2025         EVILGENAADSPR         192         49         1,200         0,0020         0,0035         0,0035           2025         EVILGENARSPROLL         192         14         1,200         0,0046         0,0036         0,0035           2025         GEALGUNGAAPATE         192         2         2         0,0100         0,0036         0,0035         0,0032           2039         HATLLYTRAREPAT         192         12         0,0100         0,0036         0,0032 <td>2021         ESHEYN-PLERALR         1920         298         -0,0003           2023         ESHEYN-LERALR         192         49         -0,0003         0,0003           2024         EVILGENAADSPR         192         49         1,000         0,0013         0,1600           2025         EVILGENAADSPR         192         49         1,000         0,0013         0,1600           2025         EVILGENARSPICALL         193         149         0,000         0,000         0,0003           2026         GLAGLOVAGARPAT         192         2,00         160         0,000         0,000         0,000           2026         GLAGLOVAGAREKUM         193         2,00         176         0,000         0,000         0,000           2026         HALLKYAREPOTK         193         2,00         174         0,000</td> <td>PGS</td> <td>2050</td> <td>ENYLEYROVPGSDPA</td> <td>1919</td> <td>255</td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td>	2021         ESHEYN-PLERALR         1920         298         -0,0003           2023         ESHEYN-LERALR         192         49         -0,0003         0,0003           2024         EVILGENAADSPR         192         49         1,000         0,0013         0,1600           2025         EVILGENAADSPR         192         49         1,000         0,0013         0,1600           2025         EVILGENARSPICALL         193         149         0,000         0,000         0,0003           2026         GLAGLOVAGARPAT         192         2,00         160         0,000         0,000         0,000           2026         GLAGLOVAGAREKUM         193         2,00         176         0,000         0,000         0,000           2026         HALLKYAREPOTK         193         2,00         174         0,000	PGS	2050	ENYLEYROVPGSDPA	1919	255			•					
2035   ESTECOARSKANCEL   1921   194   12000   0.0020   1.0000   0.0113   0.1600   2.035   ESTECOARSKANCEL   1922   49   12000   0.0020   1.0000   0.0113   0.1600   2.035   ESTECOARSKANCEL   1922   49   149   12000   0.0020   0.0030   2.035   ESTECOARSKANCEL   1922   148   2.035   ESTECOARSKANCEL   1922   148   2.035   0.0100   0.0030   0.0030   2.035   0.0030	2035   ESEPO-MASKRAMER   1931   104   12000   0.0620   1.0000   0.0113   0.1600     2035   ESPO-MASKRAMER   1932   49   12000   0.0620   1.0000   0.0113   0.1600     2035   FPUITEKASENTOLO, 1932   49   149   12000   0.0036   0.0036     2036   GPA-GLYGAQAAPAT   1932   149   12000   0.0036   0.0030     2038   GLILVACAGAAPAT   1932   120   0.0100   0.0036   0.0037     2039   HELLLYRAKEPATK   1932   120   0.0100   0.0036   0.0037     2030   HELLLYRAKEPATK   1932   120   0.0100   0.0036   0.0037     2030   HELLLYRAKEPATK   1932   120   166   0.0037   0.0037     2030   HELLLYRAKEPATK   1931   130   166   0.0037   0.0037     2030   HELLLYRAKEPATK   1931   131   131   0.0037   0.0037   0.0033     2030   LGEVPAADSPSPHS   1934   23   0.0037   0.0037   0.0033     2030   LGEVPAADSPSPHS   1934   134   160   0.0037   0.0037     2031   LGEVPAADSPSPHS   1934   134   160   0.0037   0.0037     2030   LGEVPAADSPSPHS   1934   134   140   130   0.0037   0.0037     2031   LGEVPAADSPSPHS   1934   134   140   130   0.0037   0.0037     2031   LGEVPAADSPSPHS   1934   134   135   0.0019   0.0037   0.0037     2031   LGEVPAADSPSPHS   1934   135   0.0019   0.0037	岳	2051	<b>EPHISYPPLHERALR</b>	1920	298	-0.0003				-0.0032			
2035 FFPVIFKAASEYLOLV 1922 149 2035 FFPVIFKAASEYLOLV 1924 149 2035 FFPVIFKAASEYLOLV 1924 149 2035 FFPVIFKAASEYLOLV 1924 149 2035 GEALGLYGAQAPATE 1925 22 2036 GLACLGLYGAQAPATE 1935 22 2039 HFLLLKYRAREPTK 1939 120 2039 HFLLLKYRAREPTK 1939 120 2030 HATLLKYRAREPTK 1939 120 2030 HATLLKYRAREPTK 1939 120 2031 INLAGINGEDCAP 1932 203 2036 HATLLKYRAREPTK 1939 120 2036 HATLLKYRAREPTK 1939 120 2037 GEALGLYGACAPETK 1939 120 2038 HATLLKYRAREPTK 1939 120 2039 HATLLKYRAREPTK 1939 120 2030 INLAGINGEDCAP 1932 203 2030 INLAGINGEDCAP 1932 203 2030 INLAGINGEDCAP 1934 134 2030 LGEVPAADSPRPHS 1934 115 2030 LGEVPAADSPRPHS 1934 115 2031 LLIVALINEEDCAP 1934 115 2031 LLIVALINEEDCAP 1934 115 2033 HATLLKYRAREPTKAREPTK 1934 115 2034 WELEYPKEATH 1931 234 2035 GAARGERYRAPH 1934 194 2036 GAARGERYRAPH 1934 194 2037 RALIFERVARAPH 1934 194 2038 CAARGERYRAPH 1934 194 2038 ALLEISYKRAFLHF 1937 116 2038 REPYTEALERYRAP 1934 135 2038 ALLEISYKRAFLHF 1937 116 2038 STILVALIANER 1935 134 2038 REPYTEALERYRAP 1935 134 2039 WELEYPKEATHSYR 1935 134 2030 WELEYPKEATH	2035   EVILGARADESPR   1932   49	KX	2052	ESEFOAAISRKMVEL	1921	<u>\$</u>	1.2000	0.0620	1.0000	0.0113	0.1600		0.0270	
2055 FEPVIENCASETOLO, 1924 148 2055 FEPVIENCASETOLO, 1924 149 2055 GEAGLOLVOGARATE 1925 22 2056 GEAGLOLVOGARATE 1926 150 00004 0.0009 0.0000 0.0000 2056 GEAGLOLVOGARATE 1926 150 0.0100 0.0100 0.0000 0.0000 2056 HILLINTALINEGOD 1932 120 0.0100 0.0001 0.00000 2066 HILLINTALINEGOD 1932 120 0.0100 0.0001 0.00000 2066 HILLINTALINEGOD 1932 120 0.0001 0.0001 0.00000 2066 HILLINTALINEGOD 1932 120 0.0001 0.	2054         PRIVIENCE SERVICOL         1923         148           2055         FEVINES ASETUCIN         1924         148           2055         GEGALGU/ORANTE         1925         22           2057         GEGALGU/ORANTE         1926         0.0100         0.0009         0.0009           2057         GEGALGU/ORANTESTO         1927         22         0.0100         0.0009         0.0009           2059         GEGALGU/ORANESTO         1929         126         0.0100         0.0009         0.0000           2060         H.PLILYKRAREPYT         1939         126         0.0100         0.0060         0.0000           2060         H.PLILYKRAREPYT         1931         210         0.0120         0.0017         0.0050           2060         H.PLILYKRAREPYT         1931         21         2.0000         0.0000         0.0000           2060         H.PLILYKRAREPYT         1934         13         4.0000         0.0000         0.0000           2060         H.PLILYKRAREPYT         1934         14         10         0.0000         0.0000           2060         H.LLKYRAREPYTAKAR         1941         14         10         0.0000         0.0000         0.0000 </td <td>SOS</td> <td>2053</td> <td>EVTLGEVPAADSPSP</td> <td>1922</td> <td>49</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SOS	2053	EVTLGEVPAADSPSP	1922	49								
2055         GEALGLVGAQARATE         1924         149           2055         GEALGLVGAQARATE         1924         149           2056         GEALGLVGAQARATE         1925         165         0.0046         0.0009         0.0035           2059         GILINALAIMEGO         1927         122         0.0100         0.0046         0.0003         0.0002           2050         HELLIKTRAREEVIT         1931         210         0.0100         0.0056         0.0002           2060         HELLIKTRAREEVIT         1931         210         0.0100         0.0066         0.0003           2060         HELLIKTRAREEVIT         1931         210         0.0120         0.0057         0.00660           2061         HELLIKTRAREEVIT         1931         210         0.0120         0.0037         0.00660           2061         HELLIKTRAREEVIT         1931         210         0.0003         0.0003         0.0037           2062         HELLIKTRAREEVIT         1934         24         0.0003         0.0003         0.0003           2065         KIGHALLIKUTARIA         1941         194         194         194         194         194           2070         LILIYALIMEGOCA <td< td=""><td>2055         GFALGUVGACARATE         1924         149         100         00004         0.0003         0.0000           2055         GEALGUVGACARATE         1926         165         0.0004         0.0009         0.0003           2059         GLINYALMEGD         1929         165         0.0100         0.0009         0.0003           2050         HILLIAYARABEYIT         1929         176         0.0100         0.0009         0.0002           2050         HILLIAYARABEYIT         1939         176         0.0100         0.0005         0.0002           2050         HILLIAYARABEYIT         1931         210         0.0120         0.0003         0.0050           2060         HILLIAYARABEDAY         1931         210         0.00120         0.0002         0.0002           2061         HILLIAYARABEDAY         1931         210         0.00120         0.00120         0.0002           2062         HILLIAYARABEDAY         1934         193         20         0.0003         0.0002           2063         HILLIAYARABEDAYARAB         194         113         0.0003         0.0003         0.0003           2064         LILIYARAREBAYARAB         194         115         0.0012</td><td>SEY</td><td>2054</td><td>FFPVIFSKASEYLOL</td><td>1923</td><td>148</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	2055         GFALGUVGACARATE         1924         149         100         00004         0.0003         0.0000           2055         GEALGUVGACARATE         1926         165         0.0004         0.0009         0.0003           2059         GLINYALMEGD         1929         165         0.0100         0.0009         0.0003           2050         HILLIAYARABEYIT         1929         176         0.0100         0.0009         0.0002           2050         HILLIAYARABEYIT         1939         176         0.0100         0.0005         0.0002           2050         HILLIAYARABEYIT         1931         210         0.0120         0.0003         0.0050           2060         HILLIAYARABEDAY         1931         210         0.00120         0.0002         0.0002           2061         HILLIAYARABEDAY         1931         210         0.00120         0.00120         0.0002           2062         HILLIAYARABEDAY         1934         193         20         0.0003         0.0002           2063         HILLIAYARABEDAYARAB         194         113         0.0003         0.0003         0.0003           2064         LILIYARAREBAYARAB         194         115         0.0012	SEY	2054	FFPVIFSKASEYLOL	1923	148								
2055         GRALQI VAQAAPTE         1925         22           2058         GLINALAINEGD         1927         18         0.0004         0.0005         0.0007           2059         GLINALAINEGD         1927         22         0.0100         0.0003         0.0005           2069         H.VILYTCLGSPOR         1929         120         0.0100         0.0005         0.0003           2069         H.VILYTCLGSPOR         1929         120         0.0100         0.0005         0.0003           2060         H.VILYTCLGSPOR         1939         166         0.0003         0.0005         0.0003           2063         H.VILYTCLGSPOR         1931         174         0.0003         0.0003         0.0003           2064         SKARLISPYRANCOP         1934         174         0.0003         0.0003         0.0003           2065         KAGALISPYRANCOP         1934         194         0.0003         0.0003         0.0003           2066         KAGALISPYRANCOP         1935         20         0.0003         0.0003         0.0003           2066         KAGALINALINALAIREDO         1934         20         0.0003         0.0003         0.0003           2066         KAGAL	2055         CERCALLOVAGNARTE         1925         22         20           2059         GEGALGLOVAGNARTE         1926         60009         0.0036         0.0000           2059         GEGALGLOVAGNARTE         120         0.0100         0.0009         0.0000           2059         HELLINYARREPYTK         129         176         0.0100         0.0000         0.0000           2060         HEVALVERISHLVIL         1390         166         0.0100         0.0000         0.0000           2060         HEVALVERISHLVIL         1391         130         166         0.0000         0.0000           2060         HIVALINEGOCAPERICW         1391         210         0.0000         0.0000         0.0000           2064         SIRLIVITATCICLISAY         1391         210         0.0000         0.0000         0.0000           2065         INVAINAGUCAPE         1393         20         0.0000         0.0000         0.0000           2066         LIIVALINGEOCA         1393         20         0.0000         0.0000         0.0000           2067         LIIVALINGEOCA         1391         132         24         4         4           2070         LIIVALINGEOCA         1394<	. J.	2055	<b>FPVIFSKASEYLOLV</b>	1924	149								
2037   GIEPVEVPVRISH   1926   165   0,0004   0,0005   0,0005     2038   HFLLKYRAREPVTK   1928   120   0,0100   0,0005   0,0005     2039   HFLLKYRAREPVTK   1928   120   0,0100   0,0005   0,0005     2040   HFLLKYRAREPVTK   1929   176   0,0005   0,0005     2050   HFLLKYRAREPVTK   1930   176   0,0005   0,0005     2051   HIVACHARGDCAP   1931   216   0,0005   0,0005     2052   INLAGOLAPHEGO   1932   174   0,0005   0,0005   0,0005     2054   SINTALINACIOLES   1934   134   146   0,0005   0,0005     2056   KYGLLINACHARGDCA   1938   204   0,0120   0,0005     2056   LGLVAAREPVTKAEM   1944   194   115   0,0005   0,0005     2070   LLINACHARGDCA   1938   204   0,0120   0,0005     2071   LLIXTARREPVTKAEM   1944   115   0,0005   0,0005     2071   LUXTARREPVTKAEM   1944   194   204   0,0007     2072   LUXTARREPVTKAEM   1944   204   0,0007     2073   RALLETSYNKALEHT   1947   194   204   0,0007     2074   RALLETSYNKALEHT   1947   194   204   0,0007     2075   RALLETSYNKALEHT   1947   194   204   0,0007     2076   RALLETSYNKALEHT   1941   194   204   0,0007     2077   RALLETSYNKALEHT   1941   194   204   0,0007     2078   RALLETSYNKALEHT   1941   194   204   0,0007     2079   RALLETSYNKALEHT   1941   194   204   0,0007     2070   RALLETSYNKALEHT   1941   194   204   0,0007     2071   RALLETSYNKALEHT   1941   194   204   0,0007     2071   RALLETSYNKALEHT   1941   194   204   0,0007     2072   RALLETSYNKALEHT   1941   194   204   0,0007     2073   RALLETSYNKALEHT   1941   194   104   0,0007     2074   RALLETSYNKALEHT   1941   194   104   0,0007     2075   RALLETSYNKALEHT   1941   194   104   0,0007     2076   RALLETSYNKALEHT   1941   194   104   0,0007     2077   RALLETSYNKALEHT   1941   194   104   0,0007     2078   RALLETSYNKALEHT   1941   194   104   0,0007     2079   RALLETSYNKALEHT   1941   104   0,0007   0,0007     2070   RALLETSYNKALEHT   1941   104   0,0007   0,0007     2071   RALLETSYNKALEHT   1941   104   0,0007   0,0007     2071   RALLETSYNKALEHT   1941   104   0,0007   0,0007     2071   RALLETSYNKALETSORD   1940   0,00	2037   GPEVEVPRISH   1926   165   0,0004   0,0005   0,0	OAP	2056	GEALGLVGAQAPATE	1925	23								
2038   GLILIVALIMEEDD   1927   202   0.0100   0.0032   0.0032   0.0032   0.0032   0.0032   0.0032   0.0032   0.0033	2038   GLILIKTARAREPOTR   1927   202   20100   2058   GLILIKTARAREPOTR   1927   202   2050   ELITATARAREPOTR   1929   176   2060   ELITATARAREPOTR   1929   176   2060   ELITATARAREPOTR   1930   166   2061   ELITATARAREPOTR   1931   210   2062   ELITATARAREPOTR   1931   210   2063   ELITATARAREPOTR   1931   205   2064   ELITATARAREPOTR   1932   205   2064   ELITATARAREPOTR   1934   205   2066   ELITATARAREPOTR   1934   206   2066   ELITATARAREPOTR   1934   206   2066   ELITATARAREPOTR   1934   206   2066   ELITATARAREPOTR   1934   206   2066   ELITATARAREPOTR   2067   ELITATARARAREPOTR   2067   ELITATARAREPOTR	ISH	2057	GIEVVEVVPISHLYI	1926	165	0.0084	0.0046	0.000	0.0036	0.0070		-0.0005	
2059         HFLLKFRAREPYTK         1928         120           2060         IEVVEVPRISHTAT         1939         116           2061         IEVVEVPRISHTAT         1931         210           2063         IIALROZACAFERIW         1931         210           2063         IIALROZACAFERIW         1931         210           2064         SHLYILVTCLGLSYY         1933         174           2065         KAEMLESVLRNCODF         1934         134           2066         KTGLILITALIALE         1935         20           2066         LITALIALIA         1934         22           2067         LOLVGAQARATEROO         1938         20           2069         LITALIALIALIALIA         1934         204           2070         LILLKYRARENTALIALIA         1941         160           2071         LLYRYAREPORADSP         1941         160           2071         LLYRYARENTALIALIA         1943         115           2073         LOVAGENYEVARIA         1943         116           2073         LOVAGENYEVARIA         1944         195         0.0019           2073         LOVAGENYEVARIA         1944         194         194           <	2059         HYTLKYAREPVTK         1928         120           2060         IELLKYAREPVTK         1929         176           2061         IELLKYAREPVTK         1939         176           2061         IELLGCA-REEGCAP         1931         210           2063         INTALAIN-GEOCAP         1931         210           2064         SEMLESVILANCOPIC         1931         174           2065         INCALAIN-ALIANE         1935         20           2066         KAEMLESVILANCOPIC         1935         20           2066         KYGLLIVAAIIME         1936         23           2066         LGLVGAOAPATEGO         1939         203         0.0035           2066         LGLVGAOAPATEGO         1939         203         0.0086         0.0022           2071         LLIVAAIAEGOC         1939         203         0.0086         0.0012           2071         LLIVAAIAEGOCA         1939         203         0.0012         0.0022         0.0032           2071         LLIVAAIAEGOCA         1934         47         11         11         11         11         11         11         11         11         11         11         11         11		2058	GLLIIVLAIIAIEGD	1927	202	0.0100				-0.0032			
2660         HLYILVTCLGLSVDG         1929         176           2061         IEVVLVVTCLGLSVDG         1930         176           2061         IEVVLVVPRISHLYIL         1930         166           2064         SILLYLVACLGLSVP         1932         205           2064         SILLYLVACLGLSV         1934         174           2065         KAEMLESVLRNCODF         1934         174           2066         KTGLILVALIGEDCA         1934         124           2067         LGLVAAADSPSPHS         1935         20           2067         LGLVAAADSPSPHS         1937         25           2068         LIILVALAIREDCA         1938         204         0.0120           2069         LIILVALAIAEEDCA         1939         204         0.0086         0.0031           2070         LLILVALAIAEEDCA         1939         204         0.0086         0.0003           2071         LLIVALAIAEEDCA         1934         115         0.0086         0.0003           2072         LUDAFGIEVVEVVPI         1944         147         194         115           2073         LOVAGEVALEVALIVARA         1944         147         204         0.0012           2073	2660         HLYIVTCLGLSVDG         1929         176           2061         IEVVEVVBSHLYIL         1930         176           2062         IIVACHGLGSVAP         1932         205           2063         IIVALMIGEDCAPE         1932         205           2064         ISHLYILYTCLGLSY         1933         206           2065         KAEMLESVLRNCODF         1934         134           2066         KTGLILYLAIME         1935         20           2067         LGLYGACAPERPH         1935         20           2067         LGLYGACAPERPH         1935         20           2068         LGLYGACAPERPH         1935         20           2069         LINYAIMEDCA         1939         203           2071         LLIVALMIAEDCA         1939         203           2071         LLIVALMIAEDCA         1940         123           2071         LLIVALMIAEDCA         1942         47           2072         LUNFGUEVVEVNP         1943         195           2073         LOVPGUEVVEVNP         1944         195         0.0019           2074         MAREDLESEROAA         1945         14         194           2075         PON	REP	2059	HFLLLKYRAREPVTK	1928	120								
2661         IEVVEVVPISHLYIL         1930         166           2062         IIAIEGDCAPEEKW         1931         210           2063         IIVAIAIAGEDCAPEEKW         1931         210           2064         IIAICOCAPEKW         1932         206           2064         IIAICAIAIAGEDCA         1934         174           2066         KTGLLINVAINAE         1935         20         0.0027         0.0023           2066         LOEVPAADESPRING         1936         20         0.0037         -0.0022         0.0032           2066         LOEVPAADESPRING         1938         20         0.0120         0.0037         -0.0022         0.0032           2067         LINVAINEEDCA         1938         20         0.0036         0.0032         0.0032           2071         LLKYPAREPYTKAEN         1941         160         0.0012         0.0023           2071         LLKYPAREPYTKAEN         1941         160         0.0019         0.0032           2072         LUNCAPURCHANA         1942         146         97         0.0019         0.0032           2073         LUKYPAREPYTKAENE         1942         146         97         0.0012         0.0032	2661         IEVPCVPISHLYIL         1930         166           2062         IIAIGGAAPEGTW         1931         210         0.0660           2063         IIAIGGAAPEGTW         1931         210         0.0050         0.0050           2064         ISHLYITATCIGISY         1933         174         0.0020         0.0037         0.0037           2065         KTGLIITAJIAE         1934         213         200         0.0120         0.0037         0.0032           2066         LGEVAGAARTEEOO         1938         204         0.0120         0.0037         0.0032           2069         LGIVAGAARTEEOO         1938         204         0.0120         0.0037         0.0032           2069         LIIVAIIAIGEDCA         1938         204         0.0120         0.0037         0.0031           2070         LUIVAIIAIAGEDCA         1939         203         0.0066         0.0031           2071         LLYRAREDEVENPIRAM         1941         160         0.0036         0.0120           2071         LLYRAREDVENPIRAM         1942         147         108         0.0012         0.0032           2072         LOLVAGAARTEELLIKYARR         1944         195         0.004	STS	2060	HLYILVTCLGLSYDG	1929	176								
2062         IIAIEGDCAPEEKW         1931         210           2063         IIAIEGDCAPEEKW         1931         210           2064         IIVALINTEGDCAP         1934         174           2065         IIVALAIREDCAP         1934         174           2066         KAEMIESVLRNODF         1934         104           2066         KAEMIESVLRNODF         1934         200           2067         LGEVPAADSPRPHS         1937         20           2068         LGIVAGANATEGDC         1938         204         00120           2069         LIIVALINIAGEDC         1938         204         00120         0.0021           2070         LLINVALIAIGEDCA         1938         204         0.0120         0.0021           2071         LLIVATIAIGEDCA         1939         203         0.0088         0.0012           2071         LLIVATIAIGEDCA         1939         204         0.0120         0.0022         0.0021           2072         LULYEVITGERVANDIR         194         115         0.0019         0.0021         0.0021         0.0021         0.0021         0.0021         0.0021         0.0021         0.0021         0.0021         0.0021         0.0021         0.0021<	2062         IIAIEGDCAPEEKW         1931         210           2064         IIVALINEGDCAPEEKW         1931         210           2064         IIVALINEGDCAP         1934         134           2065         IIVALINEGDCAP         1934         134           2066         KTGLLINVALINEGDCAPATERO         1934         20           2066         KTGLLINVALINEGDCA         1938         24         0.0035           2066         LGLVAAADSPRPHS         1937         20         0.0037         -0.0032           2066         LGLVAAAATEGDCA         1939         20         0.0036         -0.0032         0.0032           2067         LGLVAAAATEGDCA         1939         20         0.0036         0.0120         0.0037           2070         LIIVAAIIAIEGDCA         1939         20         0.0036         0.0120         0.0031           2071         LLIVAAIIAIEGDCA         1939         24         7         0.0031         0.0031           2072         LULYATIAIIAIAA         194         195         0.0019         0.0032         0.0032           2073         LULYATIAIAAIAA         194         195         0.0019         0.0032         0.0032           2073 <td>H</td> <td>2061</td> <td>IEVVEVVPISHI YII</td> <td>1030</td> <td>39</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	H	2061	IEVVEVVPISHI YII	1030	39								
2063         IIVLAIIAREGECAP         1932         206           2064         IIVLAIIAREGECAP         1932         206           2065         KAEMLESVLRNCOLSY         174         206           2066         KAEMLESVLRNCOLSY         1934         114           2066         KAEMLESVLRNCONSPRING         1935         20         0.0020         0.0032           2066         LGCPAPADSPRING         193         204         0.0120         0.0037         -0.0032           2069         LGLVAGAORATEGOCA         1938         204         0.0120         0.0031           2070         LLIIVLAIIAEGOCA         1939         203         0.0086         0.0120           2071         LLIYCARREPITKER         194         160         7         0.0021           2071         LLIYCARREPITKER         194         16         7         0.0032           2071         LLIYCARREPITKER         194         14         7         0.0032           2072         LOVENTIGEOCARIA         194         97         0.0019         0.0120           2073         RALLADOLVOENTI         194         24         14         146           2073         PRALLIAGOLVOENTI         194	2063         IIVLAIIAIEGECAP         1972         206           2064         IIVLAIIAIEGECAP         1972         206           2065         KARALESVLRNCOLSY         174         206           2066         KARALESVLRNCOLSY         1934         174           2066         LOEVPAADESPRING         1936         20         0.0027         -0.0023           2066         LOEVPAADESPRING         1936         20         0.0037         -0.0023         -0.0032           2068         LGLVAGAOAPATEGO         1938         204         0.0120         0.0037         -0.0032           2070         LINYALIAGEDCA         1939         203         0.0086         0.0120         0.0037           2071         LLKYPAREPATKAEM         1941         160         0.0019         -0.0032           2071         LLKYPAREPATKAEM         1941         160         97         -0.0032           2072         LUNCYLLMODLVOENT         1942         147         147         147           2073         LVEYTIGETALIKATA         1945         146         147         147           2074         RALIETSYVKVLHHT         1947         194         146         147           2075	PFF	2062	HAIFGDCAPFEKIW	1631	210				0.0660				
2064         ISHLYILVTCLGLSV         1332         174           2065         KAEMLESVLENKODPF         1934         114           2066         KIGLINYALIJAE         1934         20           2066         KIGLINYALIJAE         1935         20           2067         LGEVPAADSPSPPHS         1935         20           2069         LLIJVAALIJAEGDCA         1939         204         0.0120           2070         LLINYALIJAEGDCA         1939         204         0.0120         0.0051           2071         LLINYALIJAEGDCA         1939         203         0.0066         0.0120         0.0120           2071         LLINYALIJAEGDCA         1939         204         0.0120         0.0120         0.0120           2071         LLINYALIJAEGDCA         1934         147         0.0006         0.0120         0.0120           2071         LLINYALIJAEGDCA         1942         47         0.0012         0.0120         0.0120           2071         LLINYALBEVIKAR         1941         116         9.0019         0.0120         0.0120           2073         LOVETICEVEVARIA         1944         9.7         146         9.7         0.0012           2073	2664         INTACTOLISAY         122         202           2665         INTACTOLISAY         134         124           2666         KAEMIESVIRNCODF         1934         134           2666         KAEMIESVIRNCODF         1934         20           2666         LOTOPAADSPSPHS         1935         20           2667         LOEVAADSPSPHS         1936         20           2668         LOEVAADSPSPHS         1937         20           2669         LOLVATINITATION         1939         203         0.0086           2670         LUIVALINITATION         1940         133         0.0086         0.0120           2671         LLIVARAINITATION         1941         166         0.00120         0.0120           2672         LUIVALINITATION         1942         47         0.0019         0.00120           2673         LUVEVILGEVRANDS         1942         146         97         0.00120           2674         NOVARRATCILLIVAA         1944         194         24         97         0.0012           2675         NOVARRATCILLIVAA         1946         97         146         97         0.0012           2675         NOVARRATCILLIVAA         1		2062	WATER DOAD	1022	300				0.000				
2.066         KIALTURULUZUA         1935         114           2.066         KIGLILUALUZUA         1935         200         0.0120         0.0025         0.0370           2.066         KIGLILUALIALIA         1936         22         -0.0005         -0.0002         0.0025         -0.0032           2.067         LUGVARATEGOCA         1939         204         0.0120         0.0051         0.0120           2.070         LULKYRAREPYTKAEM         1940         120         200         0.0120         0.0120           2.071         LULKYRAREPYTKAEM         1941         160         4.7         1.0003         0.0120         0.0051           2.072         LOLVGIEWYNPH         1941         160         4.7         1.0003         0.0120         0.0037         0.0032         0.0031           2.073         LUKYRAEPYTKAEM         1943         147         1.00         4.7         1.00032         0.0032	2.066         KIALTILA/LUCACAT         1935         114           2.066         KIALLINALIALE         1935         200         0.0120         0.0025         0.0370           2.066         KIACLINIALIALE         1936         22         -0.0005         0.0025         -0.0032           2.067         LICHALINALIALEDCA         1938         224         0.0120         0.0120         0.0120           2.071         LULKYRAREPVTKAEM         1940         123         0.0086         0.0120         0.0120           2.071         LULKYRAREPVTKAEM         1941         160         0.0012         0.0120           2.071         LULKYRAREPVTKAEM         1943         115         0.0019         0.0120           2.071         LUKYRAREPVTKAEM         1943         115         0.0019         0.0022           2.072         LOLVFGIEVVEVPR         1943         115         0.0019         0.0022           2.073         LUKYRAREPVTKAER         1944         116         0.0019         0.0012           2.074         MVELVHOOLVOENVE         1944         194         194         204           2.075         RALLETSVVKVLHHT         1948         24         204         0.0022	3 6	2063	IN LAIMAIEGEAR	727	6								
2065         NAEMESVLKAULUR         1934         114         104         2000	2.06         KAEMLLEVENTACUDITY         1934         114         10002         0.0025         0.0025         0.0025         0.0025         0.0025         0.0037         -0.0025         0.0025         -0.0025         -0.0032         0.0025         -0.0032         0.0025         -0.0032         -0.0032         0.0025         -0.0032 </td <td>2 2</td> <td>4007</td> <td>ISHLYILVICLGLSY</td> <td>555</td> <td>4 :</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	2 2	4007	ISHLYILVICLGLSY	555	4 :								
2066         KTGLINVAIME         1935         200         0.0022         0.0025         0.0037           2066         LIGYDAADSPRPHS         1936         22         -0.0005         0.0037         -0.0022         0.0032           2069         LIGVAGAORATEGOA         1937         25         -0.0005         0.0031           2070         LLINVAINEGDCA         1939         203         0.0086         0.0120         0.0031           2071         LLINVAINEGDCA         1939         120         0.0086         0.0120         0.0120           2071         LLINVAINEGDCA         1949         136         47         0.0012         0.00120           2071         LLINVAILGEDYAEVPRI         1943         115         0.0019         0.0032         0.0032           2073         LOVECHEVPENTRA         1943         116         9.0019         0.0032         0.0032           2074         LOVECHEVPENTRA         1944         195         0.0019         0.0032         0.0032           2075         NOVAPKTGLLINTA         1948         250         0.0019         0.0032         0.0032           2078         OLVEGIEVVENTRIT         1946         9.7         146         0.0032         0.0	2066         KTGLINIVAINE         1935         200         0.0022         0.0025         0.0037           2066         LIGYDAADSPRPHS         1936         22         -0.0005         0.0037         -0.0022         0.0032           2069         LIJULAINAEGDCA         1939         204         0.0120         0.0051           2070         LIJIVALAINEGDCA         1939         203         0.0086         0.0120           2071         LLIJVALAINEGDCA         1939         204         0.0120         0.0051           2071         LLIJVALAINEGDCA         1939         203         0.0086         0.0120         0.0120           2071         LLIJVALAINEGDCA         1940         123         47         0.0012         0.0120           2071         LUKPTGEVPRANPIS         1943         116         9         0.0019         0.0022         0.0022           2073         NOVARTGLILIYA         1944         194         146         9         0.0012         0.0022           2073         OACHEVILEYRANPELHIT         1943         146         9         0.0072         0.0032           2073         OACHEVILEYRANESVLR         1943         146         9         0.0072         0.0072	۲.	5007	KAEMLESVLKNCODI	1934	134	;							
2667         LGEVBAADSPSPRHS         1936         52         -0.0005           2668         LGLVGAQAPATEEOO         1937         25         -0.0005           2069         LIIVLAIIAEGDCA         1939         203         0.0086           2070         LLIIVLAIIAEGDCA         1939         203         0.0086           2071         LLIVEXTRAEPVTKAEM         1940         123         0.0086           2072         LOLVEGIEVVEVVPI         1941         160         0.0019           2073         LVEVILGEVPAADSP         1942         41         195           2074         MVELVHELLKYRAR         1942         41         195         0.0019           2075         MOVAPKTGLLIIVLA         1944         194         24         0.0019           2075         MOVAPKTGLLIIVLA         1946         97         10         0.0019           2076         PRAFPDLESFFOAL         1946         97         146         97           2078         OLVFGIEVVEVVPIS         1949         256         10         0.0009           2078         OLVFGIEVVEVVPIS         1951         273         245         44           2081         OLVFGIEVVEVVPISHL         1954         44 </td <td>2667         LGEVBAADSPSPPHS         1936         52         -0.0005           2668         LGLVGAQAPATEEOO         1937         25         -0.0005           2070         LLIIVLAIIAIEGDCA         1939         203         0.0086           2071         LLIIVLAIIAEGDCA         1939         203         0.0086           2071         LLIIVLAIIAEGDCA         1939         203         0.0086           2072         LOLVEGIEVVEVPI         1941         160           2073         LVEVILGEVPAADSP         1942         47           2074         MYELVHFLLIKYRAR         1943         115           2075         NOVMPKTGLLIKYRA         1944         195         0.0019           2076         NOVMPKTGLLIKYRAR         1945         244         97           2077         NOVMPKTGLLIKYRAR         1946         97         106           2078         PRAFPDLESEFOAAI         1946         97         244           2077         PRAFPDLESEFOAAI         1948         146         97           2078         ODLVOENYLEYRROVPIS         1950         153         278           2081         OLVFGIEVVEVVPIS         1950         175           2081         &lt;</td> <td>=</td> <td>2066</td> <td>KTGLLIIVLAIIAIE</td> <td>1935</td> <td>200</td> <td>0.0120</td> <td>0.0037</td> <td>-0.0022</td> <td>0.0025</td> <td>0.0370</td> <td></td> <td>-0.0005</td> <td></td>	2667         LGEVBAADSPSPPHS         1936         52         -0.0005           2668         LGLVGAQAPATEEOO         1937         25         -0.0005           2070         LLIIVLAIIAIEGDCA         1939         203         0.0086           2071         LLIIVLAIIAEGDCA         1939         203         0.0086           2071         LLIIVLAIIAEGDCA         1939         203         0.0086           2072         LOLVEGIEVVEVPI         1941         160           2073         LVEVILGEVPAADSP         1942         47           2074         MYELVHFLLIKYRAR         1943         115           2075         NOVMPKTGLLIKYRA         1944         195         0.0019           2076         NOVMPKTGLLIKYRAR         1945         244         97           2077         NOVMPKTGLLIKYRAR         1946         97         106           2078         PRAFPDLESEFOAAI         1946         97         244           2077         PRAFPDLESEFOAAI         1948         146         97           2078         ODLVOENYLEYRROVPIS         1950         153         278           2081         OLVFGIEVVEVVPIS         1950         175           2081         <	=	2066	KTGLLIIVLAIIAIE	1935	200	0.0120	0.0037	-0.0022	0.0025	0.0370		-0.0005	
2068         L/GL/VGAORATEEOO         1937         25           2069         L/IIVALAIRIEGDCA         1938         204         0.0120           2070         LLIKYRAREPYTKAEM         1940         123         0.0086           2071         LLKYRAREPYTKAEM         1941         160           2072         LOLVFGIEVVEVVPI         1941         160           2073         LVEVTLGEVPAADSP         1942         47           2073         LVEVTLGEVPAADSP         1942         47           2074         MVELVHFLLIKYRAR         1943         115           2075         NOVARYTGLLIIVLA         1944         97           2076         PRKLLMODLVOENYL         1945         244           2077         NOVARKTGLLIIVLA         1946         97           2078         OASITSKWYELHHT         1947         146           2078         ODLVOENYLEYROVP         1949         250           2081         RALLIMODLVOENYLEY         1948         144           2078         OLVFGIEVVEVVPIS         1952         245           2081         RALLIMODLVOENYLE         1953         245           2082         SHLYILLIKYRARE         1954         175	2668         LGLVGAOAPATEEDO         1937         25           2069         LIGLVGAOAPATEEDO         1938         204         0.0120           2070         LLINYARIABEGDC         1938         204         0.0086           2071         LLKYRAREPYTKAEM         1940         123         0.0086           2071         LLKYRAREPYTKAEM         1941         160         0.0086           2072         LOLVGEIEVVEWPI         1942         47         195         47           2073         LVEVTLGEVPAADSP         1943         115         204         0.0019           2074         MYELVHFLLKYRAR         1944         195         0.0019         0.0019           2075         NOWARYTGLLIKVA         1946         97         0.0019         0.0019           2075         NOWARYTGLLIKYRAR         1946         97         108         0.0019           2076         ODFFVIFSKASEVL         1946         97         108         0.017           2078         ODLVGERVELVRYLHT         1948         146         137         0.0019           2081         OLVFGIEVVELVRYLHT         1954         173         208         NELLINTAGERVEL         1954         173 <td< td=""><td>SPSP</td><td>2067</td><td>LGEVPAADSPSPPHS</td><td>1936</td><td>25</td><td>-0.0005</td><td></td><td></td><td></td><td>-0.0032</td><td></td><td></td><td></td></td<>	SPSP	2067	LGEVPAADSPSPPHS	1936	25	-0.0005				-0.0032			
2069         LIIVLAIIAIEGDCA         1938         204         0.0120           2070         LLIIVLAIIAIEGDCA         1939         203         0.0086           2071         LLIKYRAREPVYREM         1940         123         0.0086           2072         LOLVFGIEVVEVVPI         1941         160           2073         LOLVFGIEVVEVVPI         1941         160           2074         MYELVHELLKYRAR         1943         115           2075         MOVAPKTGLLIIVLA         1944         194         97           2076         PRMFDDLESEFOAAI         1946         97         0.0019           2077         PRMFPDLESEFOAAI         1946         97         0.0019           2077         PRMFPDLESEFOAAI         1946         97         0.0019           2078         PRMFPDLESEFOAAI         1946         97         108           2079         PRMFPDLESEFOAAI         1946         97         108           2079         ODFPPVIFSKASEYL         1948         146           2079         ODFPVGEVVEVPIS         1950         161           2081         RALLMODLVOERYLE         1952         129           2082         SHLYILVTCLGLSYD         1954	2069         LIIVLAIIAIEGDCA         1938         204         0.0120           2070         LLIIVLAIIAIEGDCA         1939         203         0.0086           2071         LLIXYRAREPVYENEM         1940         123         0.0086           2072         LOLVFGIEVVEVVPI         1941         160         103           2073         LOLVFGIEVVEVVPI         1943         115         101           2074         MVELVHFLLKYARR         1943         115         0.0019           2075         NOVARYTGLLIIVLA         1945         244         195         0.0019           2076         PRKLLMODLVOENYL         1945         244         195         0.0019           2077         NOVARYTGLLIIVLA         1945         244         195         0.0019           2078         OAISRAWELVHILL         1947         108         194         244           2078         OAISRAWELVHILL         1949         250         161         0.00072           2080         OLVOGENYLESVASETL         1951         273         195         0.1500           2081         OLVOGENYLESVARAENTE	ATE	2068	LGLVGAQAPATEEQO	1937	22								
2070         LLIJUAIJAIGEDC         1939         203         0.0086           2071         LLKYRAREDYTKAEM         1940         123         0.0086           2072         LOLVFGIEVVEVPRI         1941         160           2073         LVEVTLGEVPAADSP         1942         47           2074         MVELVHGLLKYRAR         1943         115           2075         MOVARKTGLLIKVA         1944         195         0.0019           2075         PRKLLMODLVOENYL         1948         146         97           2078         OAAISRKMYELVHFL         1948         146         97           2079         ODFPVIFEVROYP         1949         250         0.0019           2079         ODLVGEIVVLEYROYP         1949         250         0.0019           2081         OLVFGIEVVEVVLHT         1951         273         0.0072           2082         RALIETSVYKVLHT         1951         273         0.0008           2083         REPYTKAEMLESYLR         1954         175         0.0008           2084         VELVHFLLLKYRARE         1957         116         0.0008           2085         VEVPHILLIXYRARE         1957         116         0.0008	2070         LLIJULAIIAIRAEGDC         1939         203         0,0086           2071         LLIYYRAREPYTKAEM         1940         123         0,0086           2073         LOEVTLGEVPAADSP         1942         47         47           2074         MVELVHFLLKYRAR         1943         115         60019           2075         MOVAMPKTGLLIVLA         1944         195         0,0019           2076         PRKLLMODLVOENYL         1946         97         94           2078         OAAISRKMVELVHFL         1947         108         94           2079         ODEFPVIFSKASEYL         1948         146         97           2079         ODEFPVIFSKASEYL         1948         146         97           2079         ODEVGENYLEYROVP         1950         161         0.00072           2081         OLVGEIEVVEVVPIS         1950         161         175           2082         RALIETSYVKVLHHT         1951         245         44           2083         REVTKEMLESVLR         1954         175         44           2084         SSTLVEVLGEVPAA         1955         245         44           2085         VELVHELLIYARAE         1954         175	ဌ	5069	LIIVLAIIAIEGDCA	1938	504	0.0120				0.0051			
2071         LLKYRAREPVTKAEM         1940         123           2072         LOLVGIEVVEVVPI         1941         160           2073         LVEVTIGEVPAADSP         1942         47           2074         MYELVHFLLKYRAE         1943         115           2075         MOVMPKTGLLIFULA         1944         195         0.0019           2076         MOVMPKTGLLIFULA         1944         195         0.0019           2077         PRMFPDLESEFOAAI         1946         97           2078         OOAISKRAVELVHFL         1948         146           2079         ODEFPVIFSKASEYL         1948         146           2070         ODFPVIFSKASEYL         1949         250           2080         ODLVGENYLEYRRY         1949         250           2081         OLVFGIEVVEVVPIS         1951         273           2081         ALLIETSYVKVLHHT         1951         273           2082         SHLYILLYGEVPA         1953         245           2083         YEVLMODL VOENYLE         1954         175           2084         YELLMODL VOENYLE         1954         175           2085         YELLINTALIKYRARE         1954         175	2071       LLKYRAREPYTKAEM       1940       123         2072       LOLVFGIEVVEVVPI       1941       160         2073       LVEVTLGEVADSP       1942       47         2074       MYELVHFLLKYRAE       1943       115         2075       NOVMPKTGLLIIVLA       1944       195       244         2076       PRKLLMODLVOENYL       1945       244       108         2077       PRMFPDLESEPOAAI       1946       108       0001         2078       OAAISRKMYELVHT       1948       146       0007         2079       ODEPVVIENTRASENT       1949       250       161         2080       ODLVOENYLEYROVP       1949       250       161         2081       OLVFGIEVVEVVPIS       1950       161       000072         2082       RALLMODLVOENYLE       1951       278       44         2083       REPVTKAEMLESVLR       1954       175       245         2084       VEVVPISHLYILVTC       1954       175       244         2085       VEVVPISHLYILVTC       1956       201       0.0008         2090       VPGIEVVEVVPISHL       1950       171       204         2091       VVPISHLYILVTCLG	ш	2070	LLIIVLAIIAIEGDC	1939	203	0.0086				0.0120			
2072         LOLVFGIEVVEVPI         1941         160           2073         LVEVTLGEVAADSP         1942         47           2073         LVEVTLGEVAADSP         1943         115           2074         MVELVHFLLKYRAR         1944         195         0.0019           2075         MOYAPKTGLLIFUA         1946         97         244           2076         PRALLMODLVGENYL         1946         97         20019           2077         PRMFPDLESEFOAAI         1946         97         0.0019           2078         OAAISRKMYELVHFL         1946         97         0.0019           2079         ODEFPVIESKASEYL         1948         146         0.0072           2080         ODLYGIEVVEVNPR         1949         250         0.0072           2081         OLYGIEVVEVNPR         1951         278         0.1500           2082         RALIETSYVKVLHT         1951         278         0.1500           2083         REPVTKAEMLESVLR         1953         245         0.0008           2084         VELINTATIANTC         1956         201         0.0008           2085         VEVPISHLYILLKYRARE         1957         116         0.0008           <	2072         LOLVFGIEVVEVPI         1941         160           2073         LVEVTLGEPAADSP         1942         47           2074         MVELVHFLLKYRAR         1943         115           2075         MVELVHFLLKYRAR         1944         195           2076         PRAFPDLESEFOAAI         1945         244           2077         PRAFPDLESEFOAAI         1946         97           2078         OASTRKAWTELHFL         1947         108           2079         ODFFPVIFSKASEYL         1948         146           2080         ODLVOENYLEYROVPI         1948         146           2081         OLVFGIEVVEVVPIS         1950         161           2081         OLVFGIEVVEVVPIS         1950         161           2082         RALLETSYVKALHT         1951         278           2083         REPVTKAEMLESVLR         1952         129           2084         SKILVOEVTGGSYDE         1954         175           2085         STLVEVTLGEVPAA         1955         44           2086         STLVEVTLKRREGRED         1957         116           2090         VVPRISHLYILVTCLG         1960         171           2091         VVPRISHLYILVTCLGLSV	Ϋ́	2071	LLKYRAREPVTKAEM	1940	123								
2073         LVEVTLGEVPAADSP         1942         47           2074         MVELVHFLLKYRAR         1943         115           2075         MOVMPKTGLLIKYAR         1944         195         0.0019           2076         PRKLLMODLVOENYL         1944         244         244           2077         PRMFPDLESEFOAH         1946         97         244           2078         OAAISRKMVELVHFL         1947         108         146           2079         ODFFPVIFSKASEYL         1949         250         0.0072           2081         OLVGIEVVEVVPIS         1949         250         0.0072           2081         OLVGIEVVEVVPIS         1950         161         0.00072           2082         RALIETSYVKYLHHT         1951         278         0.1500           2083         REPVTKAEMLESVLR         1952         129         4           2084         STLLVEVTLGGLSYD         1954         175         175           2086         SSTLVILLKYRARE         1957         116         0.0008           2087         VEVVPISHLYILVTCG         1956         171         209           2092         VEVPISHLYILVTCG         1960         171           2093<	2073         LVEVTLGEVPAADSP         1942         47           2074         MVELVHFLLKYRAR         1943         115           2075         MOVMPKTGLLINTA         1944         195         0.0019           2076         PRKLLMODLVOENYL         1945         244         0.0019           2077         PRASEEROAN         1945         244         0.0019           2078         OAAISRKMVELVHFL         1946         97         0.0019           2079         ODFFPVIFSKASEYL         1948         146         0.0072           2080         ODLYOENYERROVP         1949         250         0.0072           2081         OLVFGIEVVEVPIS         1950         161         0.00072           2082         OLVFGIEVVEVPIS         1950         245         0.1500           2083         RELITYLTGEVPA         1953         245         0.0008           2084         VELVHTLLKYRARE         1956         201         0.0008           2089         VEVPHSHLYILVTC         1956         171           2090         VFGIEVVEVPISHLYILVTC         1958         163           2091         VVPRSHLYTCLGLSYDC         1965         224           2093         YFELWGPRALETSY	VEV	2072	LOLVFGIEVVEVVPI	1941	99								
2074         MVELVHFLLLKYRAR         1943         115           2075         NOVMPKTGLLIVLA         1944         195         0.0019           2076         PRKLLMODLVOENYL         1945         24         0.0019           2077         PRMFPDLESEFOAAI         1946         97         0.0019           2078         OAAISRKMYELVHL         1947         194         146           2079         ODFFPVIFSKASEYL         1948         146         0.0072           2081         OLVGENYLEYROVP         1949         250         0.0072           2082         RALIETSYVKVLHT         1951         278         0.1500           2083         REPYTKAEMLESYLR         1953         245         0.1500           2084         RKLLMODLVOENYLE         1953         245         0.1500           2085         STLVUTCIGLSYD         1954         175         0.1500           2086         SSTLVATAIAGE         1955         244         0.0008         0.1500           2087         VELVHFLLKYRARE         1957         116         0.0008         0.1500           2089         VEVPISHLYILVTC         1958         163         224           2091         VYPISHLYILVTCGLSYD <td>2074         MVELVHFLLKYRAR         1943         115           2075         NOVMPKTGLLIVLA         1944         195         0.0019           2076         PRKLLMODLVOENYL         1945         244         0.0019           2077         PRKLLMODLVOENYL         1946         97         0.0019           2079         ODFFVIFSKASEYL         1948         146         0.0072           2080         ODLVGENYLEYRQVP         1949         250         0.0072           2081         OLVFGIEVVEVPRIS         1950         161         0.00072           2081         OLVFGIEVVEVPRIS         1951         273         0.1500           2082         RALIENSVKALHAT         1951         273         0.1500           2083         REPVTKAEMLESVLR         1953         245         175           2084         SSILVETLGEVPA         1954         175         116           2085         VELVHFLLLKYRARE         1956         201         0.0008           2090         VFGIEVVEVVPISHL         1959         163           2091         VVPRISHLYILVTCLG         1969         171           2092         VPELKRALREGRED         1962         271           2094</td> <td>PAA</td> <td>2073</td> <td>LVEVTLGEVPAADSP</td> <td>1942</td> <td>47</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	2074         MVELVHFLLKYRAR         1943         115           2075         NOVMPKTGLLIVLA         1944         195         0.0019           2076         PRKLLMODLVOENYL         1945         244         0.0019           2077         PRKLLMODLVOENYL         1946         97         0.0019           2079         ODFFVIFSKASEYL         1948         146         0.0072           2080         ODLVGENYLEYRQVP         1949         250         0.0072           2081         OLVFGIEVVEVPRIS         1950         161         0.00072           2081         OLVFGIEVVEVPRIS         1951         273         0.1500           2082         RALIENSVKALHAT         1951         273         0.1500           2083         REPVTKAEMLESVLR         1953         245         175           2084         SSILVETLGEVPA         1954         175         116           2085         VELVHFLLLKYRARE         1956         201         0.0008           2090         VFGIEVVEVVPISHL         1959         163           2091         VVPRISHLYILVTCLG         1969         171           2092         VPELKRALREGRED         1962         271           2094	PAA	2073	LVEVTLGEVPAADSP	1942	47								
2075         NOVMPKTGLLIVLA         1944         195         0.0019           2076         PRKLLMODLVOENYL         1945         244         0.0019           2077         PRMFPDLESEFOAAI         1946         97         0.0019           2078         OAAISRKMVELYHFL         1947         108         0.0072           2079         ODFFPVIFSKASEYL         1948         146         0.0072           2081         OLVGEVVEVVPIS         1950         161         0.0072           2082         RALIETSYVKVLHHT         1951         278         0.1500           2083         RELLMODLVOENYLE         1953         245         0.1500           2084         RKLLMODLVOENYLE         1953         245         0.1500           2085         STILVETTGEVPAA         1954         47         0.0008           2085         STILVETTGEVPAA         1956         201         0.0008           2087         TGLLINYAAIAEG         1956         201         0.0008           2089         VEGIEVVEVVPISHL         1954         171           2090         VPGIEVVEVPEGERD         1960         171           2091         YPELWGPRALIETSY         1962         271	2075         NOVMPKTGLLIFULA         1944         195         0.0019           2076         PRKLLMODLVOENYL         1945         244         0.0019           2077         PRMFPDLESEFOAAI         1946         97         0.0019           2078         OOAAISRKMYELVHFL         1947         108         0.0072           2080         ODLVOENYLEYROVP         1949         256         0.0072           2081         OLVFGIEVVEVVRIS         1950         161         0.00072           2081         OLVFGIEVVEVVRIS         1951         278         0.1500           2083         REALIETSYVEX/LHT         1951         278         0.1500           2084         RKLLMODL VOENYLE         1954         175         0.1500           2085         SHLYILVTCLGLSYD         1954         175         0.1500           2086         STILVEYTLGEVPAA         1955         201         0.0008           2088         VELVPHTLAILAYL         1954         176           2090         VFGIEVVEVVPISHL         1959         163           2091         VVPRISHLYILVTCLGLSYDC         1960         171           2092         VPPLHERALREGRED         1961         271	LKY	2074	MVELVHFLLLKYRAR	1943	115								
2076         PRKLLMODLVOENYL         1945         244           2077         PRMFPDLESEFOAAI         1946         97           2078         OAGRRKWYELYHFL         1941         108           2079         ODFFPVIESKASEYL         1948         146           2080         ODLVOERVLEYNPIS         1949         250           2081         OLVFGIEVVEVPIS         1950         161           2082         RALIETSYVKVLHHT         1951         278           2083         REPVTKAEMLESYLR         1952         129           2084         RKLLMODLVOENYLE         1953         245           2084         STLVVOCHTGEVPAA         1954         175           2085         STLVVLATIGEVPAA         1954         175           2086         SSTLVVLATIGEVPAA         1956         201         0.0008           2087         VELVMPILLIKYRARE         1957         116         0.0008           2089         VEVVPISHLYILVTC         1956         171         209           2091         VVPISHLYILVTCLG         1960         171           2092         VELSHWGPRALIETSY         1962         271           2094         YILVTCLGLSYDGLL         1963         771 </td <td>2076         PRKLLMÖDLVÖENYL         1945         24           2077         PRMFPDLESEFOAAI         1946         97           2079         ODFFPVIFSKASEYL         1948         146           2080         ODLVÖENYLEYRÖYP         1949         146           2081         OLVGEIVVEVVPIS         1950         161           2081         OLVGEIVVEVVPIS         1950         161           2082         RALLETSYVKVLHHT         1851         278           2083         REPVTKAEMLESVLR         1952         129           2084         SKLLMODLVOENYLE         1953         245           2085         STLVEVTLGEVPAA         1953         44           2086         SSTLVEYTLGEVPAA         1953         44           2087         VELVPRIALLIKYRARE         1957         116           2089         VEVVPISHLYILVTC         1956         171           2090         VVPRISHLYILVTC         1950         171           2091         VVPRISHLYILVTCLGLSYDE         1960         171           2092         VVPRISHLYREGRED         1961         271           2094         YPPLHERALREGRE         1964         303           2095         YPPLHERALREGR</td> <td>TII</td> <td>2075</td> <td>NOVMPKTGLLIIVLA</td> <td>1944</td> <td>195</td> <td>0 0019</td> <td></td> <td></td> <td></td> <td>-0.0033</td> <td></td> <td></td> <td></td>	2076         PRKLLMÖDLVÖENYL         1945         24           2077         PRMFPDLESEFOAAI         1946         97           2079         ODFFPVIFSKASEYL         1948         146           2080         ODLVÖENYLEYRÖYP         1949         146           2081         OLVGEIVVEVVPIS         1950         161           2081         OLVGEIVVEVVPIS         1950         161           2082         RALLETSYVKVLHHT         1851         278           2083         REPVTKAEMLESVLR         1952         129           2084         SKLLMODLVOENYLE         1953         245           2085         STLVEVTLGEVPAA         1953         44           2086         SSTLVEYTLGEVPAA         1953         44           2087         VELVPRIALLIKYRARE         1957         116           2089         VEVVPISHLYILVTC         1956         171           2090         VVPRISHLYILVTC         1950         171           2091         VVPRISHLYILVTCLGLSYDE         1960         171           2092         VVPRISHLYREGRED         1961         271           2094         YPPLHERALREGRE         1964         303           2095         YPPLHERALREGR	TII	2075	NOVMPKTGLLIIVLA	1944	195	0 0019				-0.0033			
2077         PRMFPDLESEFOAAI         1946         97           2078         OAAISRKMVELVHFL         1947         108           2079         ODFFPVIFSKASEYL         1948         146           2080         ODLVOENYLEYROVP         1949         256           2081         OLVFGIEVVEVVRS         1950         161         0.00072           2082         COLYFGIEVVEVVRS         1950         161         0.00072           2083         RALIETSYVKYLHT         1951         278         0.1500           2083         REPVTKAEMLESVLR         1952         129         0.1500           2084         STLLVEVTLGELSYD         1954         175         0.0008           2085         STLLVEVTLGEVPAA         1955         244         44           2086         SSTLVEVTLGEVPAA         1955         201         0.0008           2087         VELVPRILLKYRARE         1957         116         0.0008           2089         VEVVPISHLYILVTCLG         1960         171           2091         VVPISHLYILVTCLG         1960         171           2092         VELLMOBLYDEVEGRED         1961         224           2094         YILVTCLGLSYDGLL         1963	2077         PRMFPDLESEFOAAI         1946         97           2078         OAAISRKMVELVHFL         1947         108           2079         ODFFPVIFSRASEYL         1948         146           2080         ODLVOENYLEYROVP         1949         250           2081         OULYGIEVVEVVPIS         1950         161         0.0072           2082         RALIETSYVRALHT         1951         161         0.0072           2083         REPYTKAEMLESVLR         1952         129         0.1500           2084         RKLLMODLVOENYLE         1953         245         0.1500           2085         STLVTLYTGEVPA         1954         175         175           2086         SSTLVEVILGEVPA         1956         201         0.0008         0.1500           2087         TGLLIILLXYRARE         1956         201         0.0008         171           2089         VEVPHERALPEGRED         1961         224         224           2091         VYPICHLERALREGEE         1964         303           2093         YPPLHERALREGEE         1964         303	VOF	2076	PRKI I MODI VOENYI	1945	244					1000			
2078         OAAISRKMVELVHFL         1947         108           2079         ODFFPVIFSKASFYL         1948         146           2080         ODLVOENYLEYROVP         1949         250           2081         OLLYGIEVVEVPIS         1950         161         0.0072           2082         RALIETSYVKYLHT         1951         278         0.1500           2083         REPVTKAEMLESVLR         1952         129         0.1500           2084         RKLLMODLVOENYLE         1953         245         0.1500           2085         STLVTLYCLGLSYD         1954         175         0.1500           2086         SSTLVVEVTLGEVPAA         1955         44         0.0008           2087         TGLLIIVALAIAGE         1957         116         0.0008           2088         VELVPISHLYTLYTC         1958         169         201         0.0008           2089         VEVPISHLYTLYTC         1958         169         204         171         100008           2091         VVPISHLYTLYTC         1956         171         204         204         204           2092         VPRISHLEYERGRED         1961         224         204         204         204	2078         OAAISRKMVELVHFL         1947         108           2079         ODFFPVIFSKASFYL         1948         146           2079         ODLVOENYLEYROVP         1849         250           2081         OLVFGIEVVEVPNS         1950         161           2082         RALIETSYVKVLHHT         1951         278           2083         REPYTKARMLESVLR         1951         278           2084         RKLLMODLVOENYLE         1953         245           2085         SHLYTLVTGEVPAA         1953         245           2086         SSTLVEVTGEVPAA         1954         175           2086         SSTLVEVTGEVPAA         1956         201         0.0008           2087         VELVHFLLLKYRARE         1956         201         0.0008           2089         VEVPISHLYILVTC         1956         163           2090         VFGIEVVEVVPISHL         1959         163           2091         VVPISHLYILVTCLG         1960         171           2092         VPELSRLEFEGRED         1961         224           2093         YFELWGPRALIETSY         1962         271           2094         YILVTCLGLSYDGEE         1964         303	EFO	2077	PRMFPDI ESEFOAAI	1946	6								
2079         ODFPENTERASET         134         105           2080         ODLVGENYLEYROVP         1949         250         00072           2081         OLVFGIEVVEVVPIS         1950         161         0.00072           2082         RALIETSYVKVLHHT         1951         278         0.00072           2083         REPVTKAEMLESVLR         1952         129         0.1500           2084         RKLLMODLVOENYLE         1953         245         0.1500           2085         SHLYILVTCLGLSYD         1954         47         175           2086         SSTLVEVTLGEVPAA         1955         44         44           2087         TGLLINLAIAIEG         1956         201         0.0008           2088         VELVHFLLLKYRARE         1956         201         0.0008           2089         VEVYPISHLYILVTC         1956         163           2090         VYPISHLYILVTCLG         1960         171           2091         VVPISHLYILVTCLGLSYD         1960         171           2092         VEELWGPRALIETSY         1962         271           2094         YILVTCLGLSYDGLL         1963         178	2079         ODFFPVIFSKASTILL         1948         16           2080         ODLVOENYLEYROVP         1949         256           2081         OLVFGIEVVEVVRIS         1850         161           2081         OLVFGIEVVEVVRIS         1850         161           2082         RALIETSYPKALHHT         1851         278           2083         REPVTKAEMLESVLR         1852         129           2084         RKLLMODLVOENYLE         1854         175           2085         SHLYILVTCLGLSVD         1954         175           2086         SSTLVEVTLGEVRAA         1955         201         0.0008           2086         SSTLVEYTLGEVRAA         1955         116         0.0008           2087         VELVPRILLYILVTC         1956         201         0.0008           2090         VFGIEVVEVVPISHL         1957         116         0.0008           2091         VVPRILLYILVTCLG         1960         171         171           2092         VVPRISHLYILVTCLG         1960         171         204           2093         VFFLWGPREDED         1961         271           2094         YILVTCLGLSYDCL         1964         303           2095	, <u>1</u>	2078	OAAISBYMVEI VHEI	1047	, o								
2017         COLVENT VITA SABLEL         1349         140           2081         OLVFGIEVVEVVPIS         1949         250           2082         RALIETSYVKVLHHT         1951         278           2083         REPVITKAEMLESVLR         1952         129           2084         RKLLMODLVOENYLE         1953         245           2085         SHLYILVTCLGLSYD         1954         175           2086         SSTLVEYTLGEVPAA         1955         201         0.0008           2087         YGLLINYAAIAEG         1956         201         0.0008           2088         VELVHFLLLKYRARE         1957         116           2089         VEGIEVVEVYPISHL         1959         163           2090         VFGIEVVEVYPISHL         1959         163           2091         VVPISHLYTLVTCG         1960         171           2092         WEELSMLEYFEGRED         1961         224           2093         YFFLWGPRALIETSY         1963         271           2094         YILVTCLGLSYDGLL         1963         178	2017         COLTAIN ALERA SELL         1949         1540           2081         ODLVPGIEVVEVPPS         1949         250           2082         RALIETSYVKVLHHT         1951         278           2083         REPVTKAEMLESVLR         1952         129           2084         RKLLMODLVOENYLE         1953         245           2084         SRLYILVEVTLGEVPAA         1954         175           2086         SSTLVEVTLGEVPAA         1955         44           2087         TGLLIIVLAIARE         1956         201         0.0008           2088         VELVHFLLKYRARE         1957         116         208           2089         VEVPISHLYILVTC         1958         169         209           2090         VFGIEVVEVPISHL         1959         163         204           2091         VVPISHLYILVTCLG         1960         171           2092         VFELWGPRALIFTSY         1961         224           2093         YFELWGPRALIFTSY         1964         303           2095         YPPLHERALREGEE         1964         303		200	ODEEDVIEW ACEN	1070	24.								
2081         OLVEGIEVEVVRN         1949         250           2081         OLVEGIEVEVVRNS         1950         161         0.0072           2082         RALIETSYVKVLHHT         1951         278         0.0072           2083         REPVTKAEMLESVLR         1952         129         0.1500           2084         SKLLMODLVOENYLE         1954         175         0.1500           2085         SKLVILVEVTLGEVPAA         1954         44         44         44           2086         SSTLVEVTLGEVPAA         1955         201         0.0008         0.1500           2087         VELVYRIALILIKYRARE         1957         116         0.0008         0.0008           2089         VEVVPISHLYILVTC         1958         163         0.0008         171           2090         VVPISHLYILVTCLG         1960         171         1960         224           2091         YILVTCLGLSYDGLL         1963         771         178           2094         YILVTCLGLSYDGLL         1963         178	2081         OLVEGEVVEVPRS         1949         250           2081         OLVEGEVVEVPRS         1950         161         0.0072           2082         RALIETSYVKVLHRT         1951         278         0.1500           2083         REPVTKAEMLESVLR         1952         129         0.1500           2084         RKILMODLVOENYLE         1953         245         0.1500           2085         SHLYILVTCGLSYD         1954         175           2086         SSTLVEVTLGEVPAA         1955         201         0.0008           2087         TGLLIIVLAIIAIG         1956         201         0.0008           2088         VEVPHELLIKYRARE         1957         163           2090         VFGIEVVEVPISHL         1958         163           2091         VVPISHLYILVTCLG         1960         171           2092         VFFLWARPEGRED         1961         224           2093         YFELWGPRALIETSY         1962         271           2094         YILVTCLGLSYDGLE         1964         303           2095         YPPLHERALREGEE         1964         303	3 2	2007	ODI NOENIA EVEORE	240	- 6								
2081         OLVFULEVVEVVPIS         1930         101         0.0072           2082         RALIETSYVKVLHT         1951         278         0.1500           2083         RALIETSYVKVLHT         1951         278         0.1500           2084         RKLLMODLVOENYLE         1953         245         0.1500           2085         SYLYULYCIGISYD         1954         175         0.1500           2086         SYLYULYCIGISYD         1956         201         0.0008         0.1500           2087         VELVHFLLKYRARE         1957         116         169         169           2089         VEVPISHLYILVTC         1958         163         171         169           2091         VVPISHLYILVTCLG         1960         171         1961         224           2092         VVPISHLYILVTCLG         1960         171         209         VPILYTCLGLSYDGLL         1963         271           2094         YILVTCLGLSYDGLL         1963         178         178         178	2081 OLVFULEVEVVPINS 1930 101 2082 RALIFTSYVKVLHHT 1951 278 2083 REPVTKAEMLESVLR 1953 245 2084 RKLLMODLVOENYLE 1953 245 2086 SSTLVEYTIGEVPAA 1955 44 2087 TGLLIVLAIREG 1956 201 0.0008 2088 VELVPISHLXYRARE 1957 116 2090 VFGIEVVEVVPISHL 1959 163 2090 VFGIEVVEVPISHL 1959 163 2091 VVPISHLXTUTCIG 1960 171 2092 WEELSMLEVFEGRED 1961 224 2093 YFFLWGPRALIFTSY 1962 271 2094 YILVTCLGLSYDGLE 1964 303	4.5	2007	OULVOENTLETROVE OF SECTION OF SEC	949	) (1)								
2082         RALIETSYVKALHHT         1951         278           2083         REPVTKAEMLESVLR         1952         129         0.1500           2084         RKLLMODLVOENYLE         1953         245         0.1500           2085         SYLVEVTLGEVPA         1954         175         0.0008           2086         SSTLVEVTLGEVPA         1956         201         0.0008           2087         TGLLINLAILAEG         1956         201         0.0008           2089         VELVPFILLKYRARE         1957         116           2089         VEVPISHLYILVTC         1958         163           2091         VVPISHLYILVTCLG         1960         171           2092         WEELSMLEVFEGED         1961         224           2093         YEFLWGPRALIETSY         1962         271           2094         YILVTCLGLSYDGLL         1963         178	2082         RALIETSYVKULHHT         1951         278           2083         REPVTKAEMLESVLR         1952         129           2084         RKLLMODLVOENYLE         1953         245           2086         SYILVEVTLGEVPAA         1954         175           2086         SYILVEVTLGEVPAA         1955         44           2087         TGLINYARIAEG         1956         201         0.0008           2087         VELVPFLLKYRARE         1957         116         0.0008           2089         VEVPRILLIKYRARE         1957         163           2090         VFGIEVVEVVPISHL         1959         163           2091         VVPISHLYILVTCLG         1960         171           2092         VVPISHLYTLVTCLG         1960         171           2093         YFFLWGREED         1961         224           2094         YILVTCLGLSYDGEE         1963         271           2094         YPPLHERALREGEE         1964         303	^ ·	1807	OLVFGIEVVEV VPIS	066	<u>o</u> ;				0.0072				
2083         REPVTKAEMLESVLR         1952         129           4         2084         RKLLMODLVOENYLE         1953         245           2085         SHLYILVTCLGLSYD         1954         175         0.1500           2086         STLVEYTLGEVPA         1955         241         0.0008           2087         TGLLINYLAIIAEG         1956         201         0.0008           2088         VELVHFLLLKYRARE         1957         116           2089         VEVPISHLYILVTC         1958         163           2090         VPGIEVVEVPISHL         1959         163           2091         VVPISHLYILVTCLG         1960         171           2092         WEELSMLEYFEGED         1961         224           2093         YFELWGPRALIETSY         1962         271           2094         YILVTCLGLSYDGLL         1963         178	2083         REPVTKAEMLESVLR         1952         129           4         2084         RKLLMODLVOENYLE         1953         245           2085         SHLYILVECKIGLSYD         1954         175           2086         SSTLVEVTLGEVPAA         1955         44           2087         TGLLINYAAIARE         1956         201           2088         VELVHFLLLKYRARE         1957         116           2089         VEVVPISHLYILVTC         1958         163           2090         VFGIEVVEVPISHL         1959         163           2091         VVPISHLYILVTCLG         1960         171           2092         WEELSMLEVEGRED         1961         224           2093         YFFLWGPRALIFTSY         1962         271           2094         YILVTCLGLSYDGLL         1964         303           2095         YPPLHERALREGEE         1964         303	, (VL	7087	KALIEISYVKVLHHI	1951	278								
1         2084         RKLLMODLVOENYLE         1953         245         0.1500           2085         SHLYILYCLGLSYD         1954         175         0.1500           2086         SYLLVEVTLGEVPAA         1955         44         44           2087         TGLLIIVALAIIAEG         1956         201         0.0008           2088         VELVHFLLKYRARE         1957         116           2089         VEVPRISHLYILVTC         1958         163           2090         VPGIEVVEVPRISHL         1959         163           2091         VVPISHLYTLVTCLG         1960         171           2092         VPFLWGPRED         1961         224           2093         YTLVTCLGLSYDGLL         1963         274           2094         YILVTCLGLSYDGLL         1963         178	1         2084         RKLLMODLVOENYLE         1953         245         0.1500           2085         SHLYILVTCLGLSYD         1954         175         0.1500           2086         SSTLVEVTLGEVPAA         1955         201         0.0008           2087         TGLLINLAIIARE         1956         201         0.0008           2088         VELVHFLLLKYRARE         1957         116           2089         VEVPHSHLYILVTC         1958         163           2090         VFGIEVVEVVPISHL         1959         163           2091         VVPISHLYILVTCLG         1960         171           2092         VPELSMLEVFEGRED         1961         224           2093         YFELWGPRALIETSY         1962         271           2094         YILVTCLGLSYDGLL         1964         303           2095         YPPLHERALREGEE         1964         303	/LES	2083	REPVTKAEMLESVLR	1952	129								
2085       SHLYILVTCLGLSYD       1954       175         2086       SSTLVEVTLGEVPAA       1955       44         2087       TGLLINYLAIIAEG       1956       201       0.0008         2088       VELVHFLLLKYRARE       1957       116         2089       VEVPRILYILVTC       1958       163         2090       VPGEVVEVPISHL       1959       163         2091       VVPISHLYTLVTCLG       1960       171         2092       WEELSMLEVFEGRED       1961       224         2093       YEFLWGPRALIETSY       1962       271         2094       YILVTCLGLSYDGLL       1963       178	2085         SHLYILVTCLGLSYD         1954         175           2086         SSITUVEVTLGEVRAA         1955         44           2087         TGLLIVLALIBEG         1956         201         0.0008           2088         VELVHFLLLKYRARE         1957         116         0.0008           2089         VEVYPISHLYILVTC         1958         163         163           2090         VFGIEVVEVVPISHL         1959         163         224           2091         VVPISHLYILVTCLG         1960         171         224           2092         VFELWGPRENEDED         1961         224           2093         YFELWGPRALIETSY         1962         271           2094         YILVTCLGLSYDGEE         1964         303           2095         YPPLHERALREGEE         1964         303	VOEN	2084	RKLLMODLVOENYLE	1953	245				0.1500				٠.
2086         SSTLVEVTLGEVPAA         1955         44           2087         TGLLINLAIIAIEG         1956         201         0.0008           2088         VELVHFLLLKYRARE         1957         116           2089         VEVPISHLYILVTC         1958         163           2090         VPGIEVVEVPISHL         1959         163           2091         VVPISHLYILVTCLG         1960         171           2092         WEELSMLEVFEGRED         1961         224           2093         YEFLWGPRALIETSY         1962         271           2094         YILVTCLGLSYDGLL         1963         178	2086         SSTLVEVTLGEVPAA         1955         44           2087         TGLLINLAIIAIEG         1956         201         0.0008           2088         VELVHFLLKYRARE         1957         116         116           2089         VEVVPISHLYILVTC         1958         163           2090         VPGIEVVEVPISHL         1959         163           2091         VVPISHLYILVTCLG         1960         171           2092         WEELSMLEVFEGRED         1961         224           2093         YFELWGPRALIETSY         1962         271           2094         YILVTCLGLSYPOGIL         1963         178           2095         YPPLHERALREGEE         1964         303	15	2085	SHLYILVTCLGLSYD	1954	175								
2087         TGLLIVLAÍAÍRG         1956         201         0.0008           2088         VELVHFLLLKYRARE         1957         116         0.0008           2089         VEVVPISHLYILVTC         1958         169           2090         VFGIEVVEVVPISHL         1959         163           2091         VVPISHLYTLVTCLG         1960         171           2092         WEELSMLEVFEGRED         1961         224           2093         YEFLWGPRALIETSY         1962         271           2094         YILVTCLGLSYDGLL         1963         178	2087         TGLLIVLAIDAIGE         1956         201         0.0008           2088         VELVHFLLLKYRARE         1957         116         0.0008           2089         VEVPISHLYILVTC         1958         169         169           2090         VFGIEVVEVPRISHL         1959         163         171           2091         VVPISHLYTLVTCLG         1960         171         224           2092         WEELSMLEVFEGRED         1961         224           2093         YFFLWGPRALIFTSY         1962         271           2094         YILVTCLGLSYDGLL         1963         178           2095         YPPLHERALREGEE         1964         303	SE SE	2086	SSTI VEVTI GEVPAA	1955	4								
2088         VELVHFLLKYRARE         1977         116           2089         VEVVPISHLYILVTC         1958         169           2090         VFGIEVVEVVPISHL         1959         163           2091         VVPISHLYILVTCLG         1960         171           2091         VVPISHLYTLVTCLG         1960         171           2093         VFELWGPRED         1961         224           2094         YILVTCLGLSYDGLL         1963         771	2088 VELVHELLKYRARE 1957 116 2089 VEVVPISHLYILVTC 1958 169 2090 VFGIEVVEVVPISHL 1959 163 2091 VVPISHLYILVTCLG 1960 171 2092 WEELSMLEVEGRED 1961 224 2093 YEFLWGPRALIETSY 1962 271 2094 YILVTCLGLSYDGLL 1964 303		2087	TGI I IIVI AIIAIEG	9561	20.	80000				0.0032			
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2090 VYPISHLY 1939 2091 VYPISHLY TLVTCTG 1950 2092 WEELSMLEVFEGRED 1961 2093 YEFLWGPRALIETSY 1962 2094 YILVTCLGLSYDGLL 1963	2090 VPOIST VENTANCE 1939 2091 VPOIST VITATOTICE 2092 WEELSMLEVIEGRED 1961 2093 YEFLWGPRALIETSY 1962 2094 YILVTCLGLSYDGIL 1963 2095 YPPLHERALREGEE- 1964	1 6	2000	VECTOR OF STREET	900	6 5								
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2092 WEELSMLEYFEUKED 1961 2093 YEFLWGPRALIETSY 1962 2094 YILVTCLGLSYDGLL 1963	2092 WEELSMLEVFEUKED 1961 2093 YEFLWGPRALIETSY 1962 2094 YILVTCLGLSYDGLL 1963 2095 YPPLHERALREGEE- 1964	- N	1607	V V PISHL Y ILV ICLG	200	- 6								
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2094 YILVTCLGLSYDGLL 1963	2094 YILVTCLGLSYDGLL 1963 2095 YPPLHERALREGEE- 1964	/LE	2093	YEFLWGPRALIETSY	1962	271								
	2095 YPPLHERALREGEE- 1964	SYD	2094	YILVTCLGLSYDGLL	1963	178								
	= *													

Core SeqID   Exemplary	Octa Sept)   Exempler   Exempler   Exempler   DR		7	Table XIX A	ΧA	Mage 2 DR Sup	er Motif Peptides	Mage 2 DR Super Motif Peptides with Binding Data		
2044 ALGLVGAQAATEEQ 1913 -0.0011 2045 CLGLSYPOGLGBNQV 2046 CLGLSYPOGLGBNQV 2046 EKWPELSMLEYFE 1916 -0.0011 2047 EEKWPELSMLEYFE 1916 -0.0011 2048 EKWPELSMLEYFE 1917 -0.0011 2049 EKWPELSMLEYFE 1920 -0.0011 2050 EPHYLEYPOLNESP 1922 -0.0011 2051 EFHYPRYPOLNESP 1922 -0.0011 2052 EFHYPRYPOLNESP 1922 -0.0011 2053 EFHYPRYPOLNESP 1922 -0.0011 2054 FHYPRYPOLNESP 1924 -0.0011 2055 EHTYPRYPOLNESP 1925 -0.0011 2056 EHTYPRYPOLNESP 1935 -0.0011 2056 EHTYPRYPOLNESP 1935 -0.0011 2056 EHTYPRYPOLNESP 1935 -0.0011 2056 EHTYPRYPOLNESP 1935 -0.0011 2057 EHTYPRYPOLNESP 1935 -0.0011 2058 EHTYPRYPOLNESP 1935 -0.0011 2059 EHTYPRYPOLNESP 1935 -0.0011 2050 EHTYPRYPOLNESP 1935 -0.0011 2050 EHTYPRYPOLNESP 1935 -0.0011 2050 EHTYPRYPOLNESP 1935 -0.0011 2050 EHTYPRYPOLNESP 1935 -0.0011 2051 EHTYPRYPOLNESP 1935 -0.0011 2052 EHTYPRYPOLNESP 1935 -0.0011 2053 EHTYPRYPOLNESP 1935 -0.0011 2054 EHTYPRYPOLNESP 1935 -0.0011 2055 EHTYPRYPOLNESP 1935 -0.0011 2056 EHTYPRYPOLNESP 1935 -0.0011 2057 EHTYPRYPOLNESP 1935 -0.0011 2058 EHTYPRYPOLNESP 1935 -0.0011 2059 CONTROLLIVERANE 1935 -0.0011 2050 CONTROLLIVERANE 1935 -0.001	2044 ALGLVGAQARATEEQ 1913 -0.0011 2045 CLGLSYPOGLGONQV 2046 CLGLSYPOGLGONQV 2047 EEKWEELSMLEYFE 1916 -0.0011 2047 EEKWEELSMLEYFE 1916 -0.0011 2048 EKWEELSMLEYFE 1916 -0.0011 2049 EKWEELSMLEYFE 1919 -0.0011 2050 ERYLEFRQPALIETSYP 1917 -0.0011 2051 EPHTSTPALETRAY 1920 -0.0011 2052 EFFTARSKAFTQL 1922 -0.0011 2053 EFFTARSKAFTQL 1924 -0.0011 2054 FFTYIEKSKETQL 1924 -0.0011 2055 EFFTARSKAFTQL 1925 -0.0011 2056 GEALGLVGAQARTE 1925 -0.0011 2056 GEALGLVGAQARTE 1925 -0.0011 2056 GEALGLVGAQARTE 1935 -0.0011 2056 GEALGLVGAQARTE 1935 -0.0011 2056 GEALGLVGAQARTE 1935 -0.0011 2056 GEALGLVGAQARTE 1935 -0.0011 2056 GEALGLVGAQARTERQ 1935 -0.0011 2056 GEALGLVGAQARTERQ 1935 -0.0011 2056 GEALGLVGAQARTERQ 1935 -0.0011 2056 GEALGLVGAQARTERQ 1935 -0.0011 2057 CALGLVGAGARTERQ 1935 -0.0011 2058 GEALGLVGARATERQ 1935 -0.0011 2059 CALGLVGAGARTERQ 1935 -0.0011 2050 CALGLVGAGARTERQ 1935 -0.0011 2050 CALGLVGAGARTERQ 1935 -0.0011 2051 CALGLVGAGARTERQ 1935 -0.0011 2052 CALGLVGAGARTERQ 1935 -0.0011 2053 CALGLVGAGARTERQ 1935 -0.0011 2054 CALGLVGAGARTERQ 1935 -0.0011 2055 CALGLVGAGARTERQ 1935 -0.0011 2056 CALGLVGAGARTERQ 1935 -0.0011 2057 CALGLVGAGARTERQ 1935 -0.0011 2058 CALGLVGAGARTERQ 1935 -0.0011 2059 CALGLVGAGARTERQ 1935 -0.0011 2050 CALGLAGARTERQ 1935 -0.0011 2050 CALGLAGART	Core	Core SeqID	Exemplary Sequence	Exemplary SeqID Num	DR6w19	DR7	DR8w2	DR9	DRw53
2045 CLGLS/YORLAGONQV 2046 ERKWEELSMLEYPE 1916 2047 ERKWEELSMLEYPE 1916 2048 ERWEELSMLEYPE 1916 2050 ERWYEFFYRENEY 1917 2051 ERWYEFFYRENEY 1918 2052 ESPEÇAALSEKANYEL 1922 2053 EYPHTSYPLEHEYPE 1922 2054 FFYHTSKASEYLQLV 2055 EYPHTSYPLEHEYPE 1922 2055 EYPHTSKASEYLQLV 2056 GILINVALINEDON 1922 2057 GIEVVEYNERLYIL 1936 2058 HTLLLKYRAREPTTK 1935 2058 HTLLLKYRAREPTTK 1935 2056 LITIVALINEDON 1935 2056 LITIVALINEDON 1935 2057 CLGLYGAQARTEQQ 1937 2056 LITIVALINEDON 1935 2057 CLGLYGAQARTEQQ 1937 2056 LITIVALINEDON 1935 2057 LITIVALINEDON 1935 2057 LITIVALINEDON 1935 2057 LITIVALINEDON 1935 2058 RALIEVYKYRAREPTTK 1935 2059 LITIVALINEDON 1935 2050 LITIVALINEDON 1935 2050 LITIVALINEDON 1935 2051 LITIVALINEDON 1935 2052 LITIVALINEDON 1935 2053 RALIEVYKYRAREPTTK 1935 2054 LITIVALINEDON 1935 2055 RALIEVYKYRAREPTTK 1935 2056 LITIVALINEDON 1935 2057 RANFDLEEEGAAI 1945 2057 RANFDLEEEGAAI 1945 2057 RALIEFYKYRARE 1935 2058 RALIEVYKYRAREPTTK 1935 2058 RALIEVYKYRAREPTTK 1935 2059 RALIEVYKYRAREPTTK 1935 2059 RALIEVYKYRAREPTTK 1935 2059 WEISHATHTRON 1935 2050 WEISHATH	2045 CLGLSYNOLLGRNQV 1914 2047 ERKWEELSMLEYPE 1916 2047 ERKWEELSMLEYPE 1916 2049 EKWEELSMLEYPE 1916 2050 ERYLGRAVADSPR 1970 2051 ESTO-AARDEN 1970 2052 ESTO-AARDEN 1970 2053 ESTO-AARDEN 1970 2054 FEPVIPSKASETIQLY 1972 2055 ESTO-AARDEN 1970 2056 ERYLGRAVADSPR 1972 2057 ESTO-AARDEN 1970 2056 ERYLGRAVADSPR 1972 2057 GIEVARVERPHY 1974 2058 GIEVARVERPHY 1974 2059 HFLLKYRAREPHY 1970 2050 HFLLKYRAREPHY 2070 2050 HFLKYRAREPHY 2070 2050 HFLLKYRAREPHY 2070 2050 HFLKYRA	LVGAQAPAT	1044	ALGLVGAQAPATEEQ	1913		-0.0011			
246 EEKWGRALIEYN 1915 267 EEKWGRALIEYN 1917 268 EELWGRALIEYN 1917 269 EHWGRALIEYN 1917 260 EHWGRALIEYN 1919 260 EHWGRALIEYN 1919 260 EHWGRALIEYN 1919 260 EHWGRALIEYN 1920 260 EHWGRALIEYN 1920 260 EHWGRAETHOL 1921 260 EHWGRAETHOL 1922 260 GEALGLAGAAISKKAPEL 1922 260 GEALGLAGAAISKKAPEL 1922 260 GEALGLAGAAISK HINT 1922 260 GEALGLAGAAISK HINT 1920 260 GEALGLAGAAISK HINT 1920 260 GEALGLAGAAISK HINT 1920 260 GEALGLAGAAISK HINT 1930 260 GEALGAAISK HINT 1930 260 GEALGLAGAAISK HINT	2048         DALLAJANOWARA NALE         1915         -0.0011           2048         ERLWGFRALLEYSY         1917         -0.0011           2048         ERLWGFRALESMLEYFE         1916         -0.0011           2050         ERLWGFRALEYE         1918         -0.0011           2051         ERHSYPLHERALR         1920         -0.0011           2052         ERHSYPALHERALR         1922         -0.0011           2053         EPHICKASETYQU         1924         -0.0011           2054         FFVITEKASETYQU         1924         -0.0011           2055         GEVICLOKAQAPATE         1925         -0.0011           2056         HTALLYKAREPATE         1922         -0.0011           2057         GIEVVEVYPISHLYI         1932         -0.0011           2056         HTALLKYRAREPATE         1932         -0.0011           2056         HTALLYTCLGLSYDG         1934         -0.0011           2056         LINGGDA-PEEKW         1934         -0.0011           2057         LUINALIAIREDCA         1936         -0.0011           2056         LILIYALIAIREDCA         1934         -0.0011           2057         LUINALIAIRAIRECARARE         1944         -0.0011	DOLLGD	2045	CLGLSYDGLLGDNOV	1914					
2048 EFLWGFRALITSYV 1917 2048 EFLWGFRALITSYV 1919 2050 EPHISYPLERALE 1922 2051 EPHISYPLERALE 1922 2052 EPHISYPLERALE 1922 2053 EVTLGEVAAISKENE 1922 2054 FFVIFSKASEVLQL 1924 2055 GEALGLOGAAISKENE 1922 2056 FFVIFSKASEVLQL 1924 2056 GLUNVAIIAEGD 1927 2057 GLUNVAIIAEGD 1927 2058 GLUNVAIIAEGD 1927 2059 HTLLKYRAREPVIK 1936 2056 HTLLKYRAREPVIK 1930 2056 HTLLKYRAREPVIK 1930 2057 INVAIIAEGDCAPEKIW 1931 2056 KYGLLIIVAIIAEGD 1935 2056 LGLVGAQAFTEEQQ 1937 2057 LGLVGAQAFTEEQQ 1937 2057 LGLVGAQAFTEEQQ 1937 2057 LGLVGAGAFTEEQQ 1937 2057 LGLVGAGAFTEEQQ 1937 2057 LGLVGAGAFTEEQQ 1937 2057 LGLVGAGAFTEEQQ 1936 2057 RALLMQDLVGENAL 1946 2057 RALLMQDLVGENAL 1946 2057 RALLMQDLVGENYL 1946 2057 GLVGGEVAEVYR 1936 2057 GLVGGEVAEVYR 1936 2057 GLVGGEVAEVYR 1936 2057 GLVGGEVAEVYR 1936 2057 GLVGGEVAEVYR 1935 2057 GLVGGEVAEVYR 1935 2057 GLVGGEVAEVYR 1935 2058 GLVGGEVAEVYR 1935 2058 GLVGGEVAEVYR 1935 2059 VFGIEVVEVYR 1947 2059 VFGIEVVEVYR 1947 2059 VFGIEVVEVYR 1947 2059 VFGIEVVEVYR 1947 2059 VFGIEVVEVYR 1955 2050 VFGIEVVEVYR 1947 2050 VFGIEVVEVYR 1947 2050 VFGIEVVEVYR 1945 2050 VFGIEVVEVYR 1945 2050 VFGIEVVEVYR 1945 2050 VFGIEVVEVYR 1955 2050 VFGIEVVEVYR 1945 2050 VFGIE	2048         EHWGRALITSYY         1917           2048         EHWGRALFYEO         1918           2050         ENYLEYROPGSDA         1919           2051         EPHISYPLHENALR         1920         -0.0011           2053         EPHISYASHANDSPS         1922         0.0067         0.5100           2054         EPHISKASHALOL         1923         0.0011         0.0000           2055         FPHISKASHALOL         1923         0.0011         0.0001           2056         GLINCARARPHILL         1922         0.0011         0.0001           2056         HTALYKARARPHILL         1932         0.0011         0.0001           2056         HTALYKARARPHILL         1930         0.0011         0.0001           2066         HTALYTCGLSYDG         1934         0.0011         0.0010           2066         HATLYTCGLSYDG         1934         0.0012         0.0010           2067         HALLANGEOCAPEEKWW         1931         0.0012         0.0010           2068         KAGMLESVLRNCQDF         1943         0.0012         0.0012           2069         LITALAIAGEOCA         1943         0.0012         0.0012           2071         LLINCAILAGENYANTELMHILL <td>WEELSMLE</td> <td>2047</td> <td>EEKIWEELSMLEVFE</td> <td>9161</td> <td></td> <td>1100:0-</td> <td></td> <td></td> <td></td>	WEELSMLE	2047	EEKIWEELSMLEVFE	9161		1100:0-			
2050         ENVLEYRQVPGSDPA         1919         -0.0011           2051         ENVLEYRQVPGSDPA         1919         -0.0011           2053         ENTIGEVPADSPSP         1922         0.5100           2054         ENTIGEVPADSPSP         1922         0.5100           2054         FPVIESKASFUQL         1924         0.5100           2055         FPVIESKASFUQL         1924         0.0011           2056         GEALGUVGAQAATE         1928         0.0011           2057         GEALGUVGAQAATE         1928         0.0011           2056         GILITALALINEGD         1928         0.0011           2059         H.TILLYRAREPUTK         1928         0.0011           2066         H.TILLYRAREPUTK         1930         0.0011           2066         H.TILLYRAREPUTK         1933         0.0015           2066         H.TILLYRAREPUTK         1934         0.0011           2067         LITRALAMEGDC         1933         0.0015           2066         LITRALARGEDCA         1934         0.0011           2071         LITRALARGEDCA         1934         0.0011           2072         LOTAGEVPANDR         1944         0.0011	2050         BIYLEYROPAGNAR         1919         -0.0011           2051         EPHISYPLHERALR         1920         -0.0011           2053         ESTIGEVPAAISRKARL         1922         0.0067         0.5100           2054         EVILGEVPAAISRKARL         1922         0.0011         0.0000           2055         FFPUIESKASEYLQLV         1923         0.0710         0.0000           2056         GEALGLGAGARATE         1923         0.0011         0.00011           2057         FFLYLKYARREPH         1928         0.0011         0.00011           2058         GLINYARAREPH         1930         0.0011         0.00011           2066         HYALVYCLGLSYDG         1932         0.0011         0.0011           2066         HYALVYCLGLSYDG         1932         0.0011         0.0011           2066         HATLAYCAREPHY         1933         0.0015         0.0010           2067         KAEMLESVLRNCQDF         1934         0.0012         0.0120           2068         KAEMLESVLRNCQDF         1943         0.0120         0.0120           2070         LLIVALAIGEDCA         1943         0.0012         0.0120           2071         LLIVALAIGEDCA         1943 </td <td>PRALIET ELSMLEV</td> <td>2048 2049</td> <td>EFLWGPRALIETSYV EKIWEELSMLEVFEG</td> <td>1917</td> <td></td> <td></td> <td></td> <td></td> <td></td>	PRALIET ELSMLEV	2048 2049	EFLWGPRALIETSYV EKIWEELSMLEVFEG	1917					
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2060         HLYILVTCLGLSYDG         1929           2060         HLYILVTCLGLSYDG         1930           2062         IALEGDCAPEKIW         1931           2063         IIALAIIAIEGDCAPEKIW         1933           2064         IISHLYILCIGLSY         1933           2065         ISHLYILCIGLSY         1934           2066         KAEMLESVLRNCQDF         1936           2067         LGEVPAADSPSPPHS         1936           2067         LGEVPAADSPSPPHS         1936           2067         LGLVGAQRATEQQ         1939           2067         LGLVGAQRATEQQ         1939           2069         LIIVTAILIGEDCA         1939           2070         LLIVYAREPVITAEM         1940           2071         LLIVYAREPVITAEM         1941           2071         LVEYTGEVPANDSP         1942           2072         LQLYGIEVLAYRAR         1943           2073         LVEYTKAELLIKYRAR         1944           2074         PRMFPDLESEFQAAI         1946           2077         PRMFPDLESEFQAAI         1946           2077         PRWFFANTAEMLYRYAR         1945           2080         QDLVGENYEVVPIR         1946           2081	2060         HLYILVTCLGLSYDG         1929           2061         IEVYEVYRJBHLYIL         1930           2063         IIRTGDCAPERIW         1931           2064         IIRTAIIAIEGDCAP         1931           2064         IIRTAIIAIEGDCAP         1932           2064         IIRTAIIAIEGDCAP         1933           2066         KTGLLIIVATAIRE         1934           2067         LGEVPAADSPSPPHS         1935           2067         LGEVPAADSPSPPHS         1936           2068         LGLYGAQAPATEGQC         1939           2069         LIIVAAIIAIGGDCA         1938           2070         LLIVAAIIAIGGDCA         1939           2071         LLIYYARAEPVTKEM         1940           2071         LLIYARAIPEDCCA         1939           2071         LLIYARAIPELKYPRAR         1940           2071         LLYEYTLGEVPAADSP         1940           2072         LQLYGGIVVPRYPILLIIVAA         1945           2073         LVEYTLGEVPAADSP         1946           2074         NYEVLLMQDLVQENYL         1946           2075         QDFPVIFSKASEYL         1946           2078         QDFPVIFSKASEYL         1946           207	YRAREP	2059	HFLLLKYRAREPVTK	1928					
2061         IEVVEVVPISHLYIL         1930           2063         IIALEDCAPEEKW         1931           2064         IIALEDCAPEEKW         1932           2064         ISHLYILYTCLGLSY         1933           2065         ISHLYILYTCLGLSY         1934           2066         KAEMLESYLRNCQDF         1934           2067         LGEVARADSPSPREQ         1935           2068         LGLVGAQAPATEEQQ         1937           2069         LGLVGAQAPATEEQQ         1937           2070         LLIYCARAEPYTKEM         1940           2071         LLIYCAREPATAEM         1940           2071         LLIVEATIGEOCHADSP         1943           2072         LUVETIGEOVEVVPI         1943           2073         LUVETIGEOVEVVPI         1944           2074         AVELYHELLLKYRAR         1945           2075         LQLYFGIEVVEVVPI         1945           2076         QDFFPVIFSKASEYL         1946           2077         PRKLLMQDLVGENYL         1946           2078         QDFFPVIFSKASEYL         1946           2079         QDFFPVIFSKASEYL         1946           2081         QLVGELYVEVVPIR         1954           2082	2061         IEVVEVVPISHLYIL         1930           2062         IIANEDCAPEEKIW         1931           2063         IIALIALIKEGOZAPEKIW         1932           2064         ISHLYILVTCLGLSY         1933           2064         ISHLYILVTCLGLSY         1933           2065         KAEMLESALRNCODF         1934           2066         KTGLLIIVLAINEDCA         1938           2067         LGEVGAQAPATEQQ         1937           2068         LIIVLAINEGDCA         1938           2070         LLIKYRAREPVTKAEM         1940           2071         LLKYRAREPVTKAEM         1940           2071         LLKYRAREPVTKAEM         1941           2072         LLKYRAREPVTKAEM         1942           2073         LVEVTLGEVVEVVPI         1943           2074         AVELVHELLKYRAR         1943           2075         PRKLLMQDLVQENYL         1946           2076         PRKLLMQDLVQENYL         1946           2077         PRAFPDLESEFOADSP         1940           2078         QAAISRKMVELVHT         1946           2079         QAAISRKMVELVHT         1946           2070         QUFGEVVELVRR         1953           2080	TCLGLS	2060	HLYILVTCLGLSYDG	1929					
2062         IIAEGDCAPEEKW         1931           2064         IIALAIMCEDCAP         1932           2064         INTALINITUTCLGLSY         1933           2065         KAEMLESVLRNCQDF         1934           2066         KTGLLINLAIIAE         1935           2067         LGEVPAADSPSPPHS         1936           2068         LITALAILAIEGDCA         1938           2070         LILIVARIAEGDC         1939           2071         LILKYRAREPYTKAEM         1940           2071         LILKYRAREPYTKAEM         1940           2072         LUVFGIEVVEVPR         1941           2073         LUVFGIEVVEVPR         1943           2074         MVELVHFLLKYRAR         1946           2075         PRKLLMQDLVQENYL         1946           2076         PRKLLMQDLVQENYL         1946           2077         PRKVEYNELHT         1947           2078         QAAISRXASEY         1946           2078         QAAISRXASEY         1946           2078         QAAISRXASEY         1946           2078         QAAISRXASEY         1946           2078         QALIETSYYXLHT         1951           2080         VEGIVERYLAGOLGIS	2062         IIAIEGDCAPEEKIW         1931           2063         IIAIEGDCAPEEKIW         1931           2064         ISHTATILYTCGCAP         1932           2065         KAEMLESVLRNCQDF         1933         0.0015           2066         KTGLLIIVLAIIAIE         1935         0.0011           2067         LGEVARADSPSPHS         1936         0.0120           2068         LGLVGAQAPATEGQ         1938         0.0120           2069         LIIVLAIIAIEGDCA         1938         0.0120           2071         LLKYRAREPVTKAEM         1940         0.0120           2071         LLKYRAREPVTKAEM         1941         -0.0011           2073         LUFVTIGEVPAADSP         1942         -0.0011           2073         LUFVTIGEVPAADSP         1943         -0.0011           2073         LVEVTLGEVPAADSP         1946         -0.0011           2074         LYEVTLARVRAEL         1946         -0.0011           2075         ROVANDYTGLLIEVTRA         1946         -0.0011           2076         ROPITAMOQLVQENYLL         1948         -0.0011           2077         ROVAGRATICEVRAVIL         1948         -0.0011           2078         QALISKAKWELVHI	VPISHL	2061	IEVVEVVPISHLYIL	1930					
2065         IIVLAIIAIEGDCAP         1932           2066         ISHLYILVICLGLSY         1933           2066         KAEMLESVLRKQDF         1934           2066         KTGLIIVLAIIAIE         1935         0.0015           2067         LGEVPAADSPSPHS         1936         -0.0011           2069         LIIVLAIIAIEGDCA         1939         0.0120           2071         LLIKYRAREPVTKAEM         1940         0.0130           2071         LLIKYRAREPVTKAEM         1943         -0.0011           2072         LQLYGEIVPANPR         1943         -0.0011           2073         LVEVTLGEVPAADSP         1944         -0.0011           2073         LVEVTLGEVPAADSP         1942         -0.0011           2073         LVEVTLGEVPAADSP         1945         -0.0011           2073         LVEVTLGEVPAADSP         1946         -0.0011           2073         LVEVTLGEVPAALSP         1946         -0.0011           2074         PRKILLMQULVERNQP         1946         -0.0011           2075         PRKILLMQULVERNQP         1946         -0.0011           2076         QDEVPRINTLERRAPORT         1946         -0.0011           2079         QDEVPRINTLERRAPORT </td <td>2063         IIVLAIIAIEGDCAP         1932           2064         ISHLYILYICLGLYY         1933           2065         KAEMLESVLRNÇOPF         1934           2066         KAEMLESVLRNÇOPF         1935           2066         KAEMLESVLRNÇOPF         1936           2067         LGEVPAADERERQQ         1937           2068         LGIVGAQAPATEEQQ         1939           2070         LLINLAIIAIEGDCA         1939           2071         LLIKYRAREPYTKAEM         1940           2071         LLIKYRAREPYTKAEM         1941           2072         LQLYGGEVVEVVPI         1943           2073         LQLYGGELVEVVPI         1943           2074         MVELLIKYRAR         1944           2075         LQLYGGELVEVVPI         1945           2074         MVELLIKYRARE         1945           2075         NQVMPKTGLLIIVLA         1946           2076         PRIKLLMQDLVGENYL         1948           2077         QDLVGERVVENYLHT         1948           2078         QDLVGERVVENYLHT         1950           2081         RKLLMQDLVGENYL         1948           2082         RKLLMQDLVGENYL         1954           2084</td> <td>DCAPEE</td> <td>2062</td> <td>HAIEGDCAPEEKIW</td> <td>1931</td> <td></td> <td></td> <td></td> <td></td> <td></td>	2063         IIVLAIIAIEGDCAP         1932           2064         ISHLYILYICLGLYY         1933           2065         KAEMLESVLRNÇOPF         1934           2066         KAEMLESVLRNÇOPF         1935           2066         KAEMLESVLRNÇOPF         1936           2067         LGEVPAADERERQQ         1937           2068         LGIVGAQAPATEEQQ         1939           2070         LLINLAIIAIEGDCA         1939           2071         LLIKYRAREPYTKAEM         1940           2071         LLIKYRAREPYTKAEM         1941           2072         LQLYGGEVVEVVPI         1943           2073         LQLYGGELVEVVPI         1943           2074         MVELLIKYRAR         1944           2075         LQLYGGELVEVVPI         1945           2074         MVELLIKYRARE         1945           2075         NQVMPKTGLLIIVLA         1946           2076         PRIKLLMQDLVGENYL         1948           2077         QDLVGERVVENYLHT         1948           2078         QDLVGERVVENYLHT         1950           2081         RKLLMQDLVGENYL         1948           2082         RKLLMQDLVGENYL         1954           2084	DCAPEE	2062	HAIEGDCAPEEKIW	1931					
2065 SHLYILYTCLGLSY 1933 2065 KAEMLESVLRNCQDF 1934 2066 KAEMLESVLRNCQDF 1934 2067 LGEVPAADSPSPPHS 1936 -0.0011 2068 LGLVGAAPATEEQQ 1937 2069 LINVAINATEGDCA 1939 2070 LLKYRAREPYTKAEM 1940 2071 LLKYRAREPYTKAEM 1941 2071 LLKYRAREPYTKAEM 1941 2071 LLKYRAREPYTKAEM 1942 2071 LLKYRAREPYTKAEM 1942 2071 LLKYRAREPYTKAEM 1944 2072 LOVEYTLGEVPAADSP 1942 2073 LVEYTLGEVPAADSP 1943 2074 MVELVHTGLLIKYRA 1944 2075 NOVMPKTGLLIKYRA 1944 2076 PRILLMQDLVGENYL 1948 2077 QASISKKWYELVHT 1951 2080 QLVFGIEVVEVPIS 1950 2081 RELLMQDLVGENYLE 1951 2080 QLVFGIEVVEVPIS 1950 2081 RELLMQDLVGENYLE 1955 2081 RELLMQDLVGENYLE 1955 2082 STLVEYTLGEVPAA 1955 2083 RELVILYTCLGLSYD 1950 2084 STLVEYTLGEVPAA 1955 2089 VECHPISHLILKYRARE 1957 2080 VFGIEVVEVPISHL 1950 2090 VFGIEVVEVPISHL 1950 2091 VFGIEVVEVPISHL 1950 2092 VFGIEVVEVPISHL 1950 2093 VFELWGPRALIETSY 1960 2092 VFGIEVVEVPRISHL 1950 2093 VFELWGPRALIETSY 1960 2094 YTLVTCLGLSYDGLL 1960 2095 VFELWGPRALIETSY 1960	2065         ISHLYILYTCLGLSY         1933           2065         KAEMLESVLRNCQDF         1934         0.00290           2066         KAEMLESVLRNCQDF         1934         0.0011           2067         LGEVBAQAPATEEQA         1936         -0.0011           2068         LINYAIMAEGDCA         1939         0.0120           2070         LILKYRAREPYTKEM         1940         0.0130           2071         LILKYRAREPYTKEM         1940         -0.0011           2072         LUKYTLEVPAREM         1940         -0.0011           2073         LOLVFGIEVVEVVPI         1943         -0.0011           2074         MVELHKTGLLINA         1944         -0.0011           2075         PRKLLMQDLVQENYL         1945         -0.0011           2074         ANVENKTGLLINA         1946         -0.0011           2074         ANVENKTGLLINA         1945         -0.0011           2075         PRALLLMQDLVQENYL         1946         -0.0011           2076         PRIXILYTCLLIKYRAR         1947         -0.0011           2078         QADERVERKASEY         1947         -0.0011           208         RALIETSVWALHIT         1951         -0.0011           208 </td <td>AIFGD</td> <td>2063</td> <td>IIVI AIIAIEGDCAP</td> <td>1932</td> <td></td> <td></td> <td></td> <td></td> <td></td>	AIFGD	2063	IIVI AIIAIEGDCAP	1932					
2066 KTGLLIIVLAIIAIE 1935 0.0015 0.0290 2066 KTGLLIIVLAIIAIE 1935 0.0015 0.0011 2067 LGEVPAADSPSPHS 1936 0.0015 0.0011 2068 LGLVGAQARATEQQ 1937 0.0120 2070 LLITVLAIIAIEGDCA 1939 0.0130 2071 LLITVRAIEPYTKAEM 1940 2072 LQLVFGIEVVEVVPI 1941 2073 LVEVTLCEVPAADSP 1942 2074 MVELVHFLLLKYRAR 1943 2074 MVELVHFLLKYRAR 1945 2075 LQLVFGIEVVEVVPI 1945 2076 PRINCHANGLLIIVLA 1945 2076 QAAISKMVELVHFL 1945 2077 QOFFPVIFSKASEYL 1946 2078 QAAISKMVELVHFL 1947 2078 QAAISKWVELVHFT 1951 2080 QDLVGENTLEYRQVP 1951 2080 QDLVGENTLEYRQVP 1951 2080 REPVIFKAEMLESVIR 1953 2081 QLVFGIEVVEVVPIS 1955 2081 GLIIVLAIIAIEG 1955 2082 RALLETSYVKVLHHT 1951 2083 STLVEVTLGEVPAA 1955 2084 KKLLMQDLVGENYLE 1955 2089 VEVVPISHLYILVTCLG 1959 2090 VFGIEVVEVVPISHLYILVTCLG 1959 2091 VFFIELYTEYRQVE 1950 2092 VFELWGPRALIETSY 1962 2093 YERLWGPRALIETSY 1962 2093 YERLWGPRALIETSY 1963 2094 YILVTCLGLSYDGLL 1963	2065         KAEMLESVLRKOOP         1935         0.0015         0.0290           2066         KTGLLINUALIAIE         1935         0.0015         0.0010           2068         LGLVGAQAPATEEQQ         1937         0.0120           2068         LGLVGAQAPATEEQQ         1937         0.0130           2070         LLINYARIAEGDC         1939         0.0130           2071         LLIKYRAREPYTKAEM         1941         0.0130           2072         LQLYGEVPAADSP         1942         0.0011           2073         LVEVTLGEVPAADSP         1943         0.0011           2074         MYELLWOLVERPRSP         1945         0.0011           2075         NQYMRYTGLLINTA         1945         0.0011           2076         PRIKLIMOLVERPRSP         1945         0.0011           2077         PRINTFDLESEFQAAI         1946         0.0011           2078         QOLVQENYLERRQVP         1945         0.0011           2079         QDFPPVIFSKASEYL         1946         0.0011           2080         QULVGENYLERRQVP         1953         0.0011           2081         QULVGENYRULGESP         1954         0.0011           2082         SELLYTLYTGLGLSYD         195	VICE	206	ISTANCE OF CA	1013					
2005 NATIONAL COLOR 1934 0.0015 2006 KTGLUIVARIAR 1935 0.0015 2006 LIGVAADSPSPHS 1936 0.0012 2007 LIGVAADSPSPHS 1939 0.0120 2007 LITIVARIARGDCA 1939 0.0130 2007 LLKYRAREPYTKAEM 1940 2007 LLKYRAREPYTKAEM 1941 2007 LQLVFGIEVVEVVPI 1943 2007 MVELVHFLLKYRAR 1944 2007 PRMFPDIESEFQAAI 1946 2008 QDLVGENYLEYRAR 1949 2008 QDLVGENYLEYRAR 1951 2008 QDLVGENYLEYRAR 1951 2008 RALIETSYYKYLHFT 1951 2008 STLVEYLLGEVPAA 1955 2008 STLVEYLLGEVPAA 1955 2008 VELVHFLLLKYRARE 1957 2009 VFGIEVVEYPRISH 1959 2009 VFGIEVVEYPRISH 1959 2009 VFGIEVVEYPRISH 1959 2009 VFGIEVVEYPRISH 1950 2009 VFGIEVVEYPRISH 2008 2009 VFGIEVVEYPRISH 2009 2009 VFGIEVEYPRISH 2009 2009 VFGIEVVEYPRISH 2009 2009	2009         NATELLINUALIDAE         1934         0.00015           2006         LIGUAGARATECQ         1936         0.0011           2006         LIGUAGARATECQ         1937         0.00120           2006         LIINUALINAEGDCA         1938         0.0120           2070         LILKYRAREPVTKAEM         1940         0.0130           2071         LLKYRAREPVTKAEM         1941         -0.0011           2072         LQLVFGIEVVEVVPI         1943         -0.0011           2073         LVELLMQDLVQENYL         1943         -0.0011           2074         MYELWHPLLESEFQAAI         1946         -0.0011           2075         RALLENQDLVQENYL         1945         -0.0011           2076         PRAKLLMQDLVQENYL         1946         -0.0011           2077         PRAKILMQDLVQENYL         1946         -0.0011           2078         QDFFPVIFSKASEYL         1946         -0.0011           2079         QDFFPVIFSKASEYL         1946         -0.0011           208         CALSTAVEVHER         1951         -0.0011           208         RALLETSYKYLHRT         1954         -0.0011           208         SHLYLLCEVPA         1954         -0.0011	בייונים	507	NATIONAL PENT BAICODE	501					
2066         KTGLLINULAIIAIE         1935         0.0013           2067         LGEVGAQAPATERQQ         1934         0.0013           2069         LITUTAIIAIEGDCA         1938         0.0120           2070         LLITVARAEPYTKAEM         1940         0.0130           2071         LLKYRAREPYTKAEM         1940         0.0130           2072         LQLYFGIEVVEANPI         1941         0.0011           2073         LVEVTLGEVEANPI         1943         0.0011           2074         MVELVHGIEVVEANPI         1944         0.0011           2075         MVAMPKTGLLINIA         1945         0.0011           2074         MVEVTLLKYRAR         1946         0.0011           2075         MVAMPKTGLLINIA         1946         0.0011           2076         PRKLLMQDLVQENYL         1946         0.0011           2077         QDFFVIFSKASEYL         1946         0.0011           2078         QDFFVIFSKASEYL         1951         0.0011           2080         QDLVGEVVVPIS         1953         0.0011           2081         RALLMQDLVQENYLE         1953         0.0011           2081         VELVHFLLLKYRARE         1954         0.0011	2066   KIGLLIVARIABLE   1935   0.0013   0.0250   0.0075   0.0013	SVLKNC	5002	KAEMLESVLKNCQUF	466		0000	,		
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CONTRICTOR   CON	208   10LLINVARIATED   1930   10LLINVARIATED   1930   10LLINVARIATED   1957   1088   10LLINVARIATED   1958   10LLINVARIATED   1958   1080   1090	VILGEV	2002	TOT I THE ATTACK	701		0.0011			
1000   1000	1000   VELVHILLIA YAKE   1000   VELVHISHLYILVTC   1000   VEGIEVVEVPISHL   1000   VEGIEVVEVPISHL   1000   VELWGRELIETSY   1000   VELWGRALIETSY   1000   VILVTCLGLSYDGLL   1000   VPPLHERALREGEE   VPPLHERALREGEE   VPPLHERALREGEE   VPPLHERALREGEE	LAUA.	7087	IGLLII VLAIMIEG	0061		-0.001			
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2091 VVPISHLYTLVTCLG 2092 WEELSMLEVFEGRED 2093 YEFLWGPRALIETSY 2094 YTLVTCLGLSYDGLL	2091 VVPISHLYILVTCLG 2092 WEELSMLEVFEGRED 2093 YEFLWGPRALIETSY 2004 YILVTCLGLSYDGLL 2005 YPPLHERALREGEE-	VEVVPI	2090	VFGIEVVEVVPISHL	1959					
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2093 YEFLWGPRALIETSY 2094 YILVTCLGLSYDGLL	2093 YEFLWGPRALIETSY 2094 YILVTCLGLSYDGLL 2095 YPPLHERALREGEE-	<b>ALEVFEG</b>	2092	WEELSMLEVFEGRED	1961					
2094 / YILVTCLGLSYDGLL	2094 / YILVTCLGLSYDGLL 2095 / YPPLHERALREGEE-	GPRALIE	2093	YEFLWGPRALIETSY	1962					
	72095 / YPPLHERALREGEE-	CLGLSYD	7 5004	YILVTCLGLSYDGUL	1963					

	DR5w12			I				
	DR5w11							
	DR4w4 DR4w15 DR5w11 DR5w12							
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Mage 2 DR Super Motif Peptides with Binding Data	DR1 DR2w81 DR2w262				13 4 7 6 VA			
per Motif	DR2w81				2			
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Mage	Position	260 285						
Table XIX A	Exemplary Position SeqID Num	1965 1966	6	-				
Tabl	Exemplary Sequence	YROVPGSDPACYEFL YVKVLHHTLKIGGEP				 ,		;/ · *
	Core SeqID Exemplary Num Sequence	2096						
	Core Sequence	VPGSDPACY VLHHTLKIG						



	DR5w12										·												-								
	DR5w11				0.0310						-0.0008						9000	-0.0003	0.0650	9000	C000.0-										
	DR4w15																														-
	DR4w4	-0.0008	-0.0032		0.0590			0.0110	1000	-0.0027	-0.0055		-0.0008			-0.0008	0.0033	7600.0-	0.0032	0,000	0.0240										
ding Data	DR3		-0.0025		0.0059						1.8000						1000	0.0021	0.0006	9000	0.0000	0.0150									
s with Bin	DR2w282				1.1000						-0.0010						0.0013	0.0013	0.0300	00000	2000										1
otif Peptide	DR2w81				0.3100						0.0057						00000	0.0020	0.0030	00130	0.10.0										
Mage 3 DR Super Motif Peptides with Binding Data	DRI .	0.0045 0.0330	-0.0003		1.9000			0.0110	6000	0.0026	0.0003		0.0043			0.0026	03600	0.020	0.0440 0.1100	0.0510	0.000										
Mage 3 D	Position	116 201 24	250 250 250	ឌ្ឌ	255 104	49 148	2 4	175	202	150	176 166	174	505	<del>25</del> 22	<u>بر</u> کر	\$ £	123	47	195 144	75	801	52 191 191	146	129	4 듯	22	142	224	303	282	
KIX B	Exemplary SeqID Num	1967 1968 1969	1970 1971 1972	1973 1974	1975 1976	1977 1978	1979 1980	1981	1983	1985	1986 1987	1988	0661	1991 1992	1993	1995	1996	1998	1999 2000	2001	2003	500 <del>4</del>	2006	2008	2009 2010 2010	201	2013 2013	2014	2016	2018	•
Table XIX B	Exemplary Sequence	AELVHFLLKYRARE AGLLIIVLAIIAREG ALGLVGAQAPATEEQ	CLGLSYDGLLGDNQI DGLLGDNQIMPKAGL EEKIWEELSVLEVFE	SFLWGPRALVETSYV SKIWEELSVLEVFEG	ENYLEYRQVPGSDPA ESEFQAALSRKVAEL	SVTLĞEVPAAESPDP FPVIFSKASSSLQL	PVIFSKASSSLQĽV JEALGĽVGAOAPATE	SHLYIFATCLĞLSYD	SELIIVLAIIAREGD	FLLLKYRAREPVTK	HLYIFATCLGLSYDG IELMEVDPIGHLYIF	GHLYIFATCLGLSY	AEMLUS VUNWŲTF (AGLLIIVLAIIARE	KLLTQHFVQENYLE GEVPAAESPDPPQS	GLVGAQAPATEEQE	LIIVLAIIAREGDC	LKYRAREPVTKAEM	VEVTLGEVPAAESP	NQIMPKAGLLIIVLA NWQYFFPVIFSKASS	STFPDLESEFQAAL	AALSRKVAELVHFL	HFVQENYLEYRQVP XLVFGIELMEVDPIG	YFFPVIFSKASSSL	CEPVTKAEMLGSVVG	STLVEVTLGEVPAA	/DPIGHLYIFATCLG	/FGIELMEVDFIGHL /GNWOYFFPVIFSKA	WEELSVLEVFEGRED	YPPLHEWYLREGEE-	YVKVLHHMVKISGGP	
	Core SeqID E		2102		2106 2107	2108 2109 F	2110 2111							2122 K	2124		2127 L		2130	.2132 P		2135 2136 0	2137		2140 S		2143			2148	
	Core	VHFLLLKYR LIIVLAIIA LVGAQAPAT	LSYDGLLGD LGDNQIMPK IWEELSVLE	WGPRALVET WEELSVLEV	LEYRQVPGS FQAALSRKV	LĞEVPAAES VIFSKASSS	IFSKASSSL LGLVGAOAP	YIFATCLGL	IIVLAIIAR ISVBBI UEW	LLKYRAREP	IFATCLGLS MEVDPIGHL	LYIFATCLG	LLIIVLAII	LTQHFVQEN VPAAESPDP	VGAQAPATE	VLAIIARE INLAIIARE	YRAREPVTK	VTLGEVPAA	MPKAGLLII YFFPVIFSK	FPDLESEFQ	LSRKVAELV	VOENYLEYR	FPVIFSKAS	VTKAEMLGS	LVEVTLGEV	IGHLYTFAT	NOYFFPVIF	LSVLEVFEG	LHEWYLREG	VLHHMVKIS	

ACA CONTRACTOR

	DRw53			v																										
	DR9																													
ling Data	DR8w2				0.0430						0.0130						-0.0004		0.2200	0.0038										
de with Ring	DR7	-0.0026	-0.0011		0.7400		,	0.0025	-0 0018		0.0027		-0.0011			-0.0018	0.0970	-0.0011	0.0560	0.0890										
Motif Pentic	DR6w19				0.0005						0.0130						0.0004		-0.0003	0.0240										
Wage 3 DR Suner Motif Pentides with Binding Date	Exemplary SeqID Num	6961 6961 6961	1970 1971 1972	1973	6761 8761	1978	0861	1981 1982	1983 1984	1985	1987	1989	1990 1991	1992	1994	1996	1997	1999	2000 2001	2002	2004	2002 2006	2007	2009	2010 2011	2012	2013	2015 2016	2017 2018	«
Table XIX B		AELVHFLLLKYRARE AGLLIIVLAIIAREG ALGLVGAQAPATEEQ	CLGLSYDGLLGDNQI DGLLGDNQIMPKAGL EEKIWEEI SVI.EVEE	EFLWGPRALVETSYV EKIWEELSVLEVFEG	ENTLETRUMGSDFA ESEFQAALSRKVAEL	EVILGEVPARESPUP FFPVIFSKASSSLQL EDVIESVASSSLQL	GEALGLYGAQAPATE	GHLYIFATCLGLSYD GIELMEVDPIGHLYI	GLLIIVLAIIAREGD GPHISYPPLHEWVLR	HFLLLKYRAREPVTK	IELMEVDPIGHLYIF	KAEMLGSVVGNWQYF	KAGLLINLAIIARE KKLLTQHFVQENYLE	LGEVPAAESPDPPQS	LIIVLAIIAREGDCA	LLKYRAREPYTKAEM	LQLVFGIELMEVDPI	NQIMPKAGLLIIVLA	NWQYFFPVIFSKASS PSTFPDLESEFOAAL	PVIFSKASSSLQLVF	QHFVQENYLEYRQVP	QLVFGIELMEVDFIG QYFFPVIFSKASSSL	RALVETSYVKVLHHM PEDVTK A EMI GSVVG	SSTLVEVTLGEVPAA	VAELVHFLLLKYRAR VDPIGHLYFATCLG	VFGIELMEVDPIGHL	WEELSVLEVFEGRED	YEFLWGPRALVETSY YPPLHEWVLREGEE-	YRQVPGSDPACYEFL YVKVLHHMVKISGGP	
	Core SeqID Num	2098 2099 2100	2102 2103 2103	2104	2107	2109	2112	2113	2114 2115	2116	2118	2120	2121	2123	2125	2127	2128	2130	2131	2133	2135	2137	2138	2140	2141	2143	2145	2146	2148	_
	Core	VHFLLLKYR LIIVLAIIA LVGAQAPAT	LSYDGLLGD LGDNQIMPK IWEELSVLE	WGPRALVET WEELSVLEV	LETRY VIOS FQALSRKV I GEVRA AES	LUEVFAAES VIFSKASSS IFSKASSS	LGLVGAQAP	YIFA I CLGL LMEVDPIGH	IIVLAIIAR ISYPPLHEW	LLKYRAREP IFATCI GI S	MEVDPIGHL	MEGSVVGNW	LLIIVLAII LTQHFVQEN	VPAAESPDP VGAOAPATE	VLAIIAREG	IVLAIIARE YRAREPVTK	VFGIELMEV	MPKAGLLII	YFFPVIFSK FPDLESEFQ	FSKASSSLQ 1 CDKVAELV	VQENYLEYR	FPVIFSKAS	VETSYVKVL VTKA EMI GS	LVEVTLGEV	LVHFLLLKY IGHLYIFAT	IELMEVDPI	WOYFFVIF LSVLEVFEG	LWGPRALVE LHEWVLREG	VPGSDPACY VLHHMVKIS	

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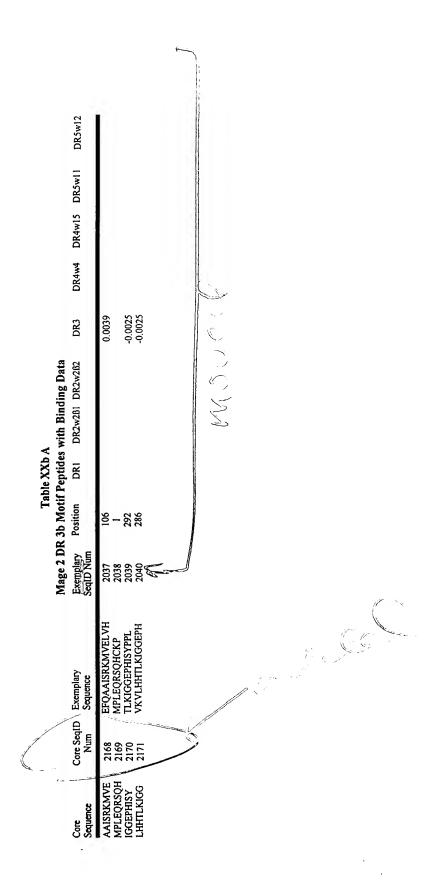
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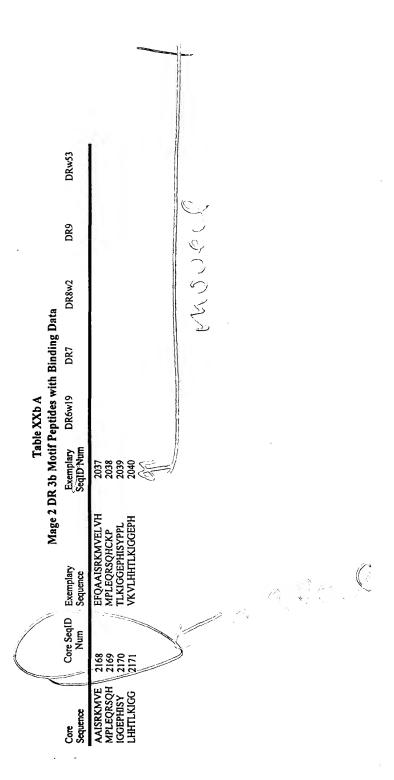
			; 1 
		DR5w12	
		DR4w15 DR5w11	
	Mage 2 DR 3a Motif Peptides with Binding Data	DR4w15	
		DR4w4	
		DR3	0.1400 0.0130 0.0033 0.0033 0.00890 0.0190 0.0190 0.0072
		DR2w2BI DR2w2B2	
		DR2w2B1	
Table XXa A		DR1	
Table		Position	183 220 200 200 245 245 161 188 188
		Exemplary SeqID Num	2019 2020 2021 2021 2023 2024 2025 2026 2027 2027
1		Exemplary Sequence	CLGLSYDGLLGDNOV EEKIWEELSMLEVFE FPDLESEFOAAISRK GPRMFPDLESEFOAA ILATIAGEGOCAPEEKIW ILATIAGEGOCAPEEK MODL VOENYLEYROV OL VFGIEVVEVYPIS RKLLMODL VOENYLE YDGLLGDNOVMPKTG
		Core SeqID Num	2150 2153 2153 2153 2153 2153 2153 2153 2153
		Core	LSYDGLLGD WEELSMLE LESEFQAAI MEPDLESEF IEGDCAPE LVQENYLEY FGIEVVEVV LMQDLVQEN LLGDNQVMP

		DRw53		
		DR9		
	. Mage 2 DR 3a Motif Peptides with Binding Data	DR8w2		
		DR7		
Table XXa A		DR6w19		
Table		Exemplary SeqID Num	2019 2020 2021 2022 2023 2024 2025 2025 2027 2027 2028	
	Mage 2 D	Exemplary Sequence	CLGLSYDGLLGDNQV EEKIWEELSMLEVFE PPDLESEFQAAISRK GPRMFPDLESEFQAA IAHGGDCAPEEKW LAIAHGDCAPEEK MQDLVQENYLEYRQV QLYGIEVVEVVPIS RKLLMQDLVQENYLE YDGLLGDNQVMPKTG	<i>(</i> (
	2	Core SeqID	2150 2151 2153 2153 2153 2155 2155 2155 2155	 ``
		Core	LSYDGLLGD IWEELSMLE LESEFGAAI MFPDLESEF IEGDCAPE IAGENYEY FGIEVVEV LAGDNQVMP	

		DR5w12						
		DR4w15 DR5w11	-0.0008					
		DR4w15						
	Mage 3 DR 3a Motif Peptid	DR4w4	-0.0055		0			
		DR3	-0.0025 0.0058 0.0026 1.8000 -0.0025 0.0150 0.2800					
		DR2w281 DR2w282	-0.0010		Š			
a B		DR2w281	0.0057					
Table XXa B		DRI	0.0003					
		Position	183 220 100 166 249 188					
		Exemplary SeqID Num	2029 2030 2031 2032 2033 2034 2035 2035	الم				
		Core SeqID Exemplary Num Sequence	CLGLSYDGLLGDNQI EEKIWEELSVLEVFE FPDLESEFQAALSRK IELMEVDPIGHLYIF LAIIAREGDCAPEEK QLYFGIELMEVDPIG TQHFVQENYLEYRQV YDGLLGDNQIMPKAG			C.	16. J.	
		Core Seql	2160 2161 2162 2163 2164 2165 2165 2167	5				
		Core	LSYDGLLGD WEELSVLE LESEFQAAL MEVDPIGHL IAREGDCAP FGIELMEVD FVGENYLEY					

	DRw53				
	DR9				
	DR8w2	0.0130			
<del>2</del>	DR7	0.0027	N & O O W		
Binding D	DR6w19	0.0130			
Table XXa B otif Peptides with	Exemplary SeqID Num	2029 2030 2031 2033 2033 2036			
Table XXa B Mage 3 DR 3a Motif Peptides with Binding Data	Exemplary Sequence	CLGLSYDGILGDNQI EEKWEELSVLEVFE FPDLESERQAALSRK IELMEVDPIGHLYIF LAHAREGDCAPEEK QLVFGHEMEVDPIG TQHFVQENYLEYRQV YDGLLGDNQIMPKAG	TENTAL STATES	4 g <sup>4</sup>	J 50 C
	Core SeqID Num	2160 2161 2163 2163 2164 2165 2165			
	Core Sequence	LSYDGLLGD IWEELSVLE LESEFOAAL MEVDPIGHL IAREGDCAP FGIELMEVD FVOENYLEY LLGDNOIMP			





		DR5w12				
		DR4w4 DR4w15 DR5w11	-0.0008			
		DR4w15				
		DR4w4	-0.0055			
		DR3	0.6700 0.0027			
	Data	DR2w262	-0.0010			
	th Binding	DR2w281 DR2w282	-0.0006			
Table XXb B	eptides wi	DR1	0.0003			
Table	b Motif P	Position	237 106 1			
	Mage 3 DR 3b Motif Peptides with Binding Data	Exemplary SeqID Num	2041 2042 2043			
		Exemplary Sequence	EDSILGDPKKLLTQH FFQAALSRKVAELVH MPLEQRSQHCKP	f	• `	
		Core SeqID Exemplary Num Sequence	2172 2173 2173 2174			
		Core	ILGDPKKLL AALSRKVAE MPLEQRSQH			

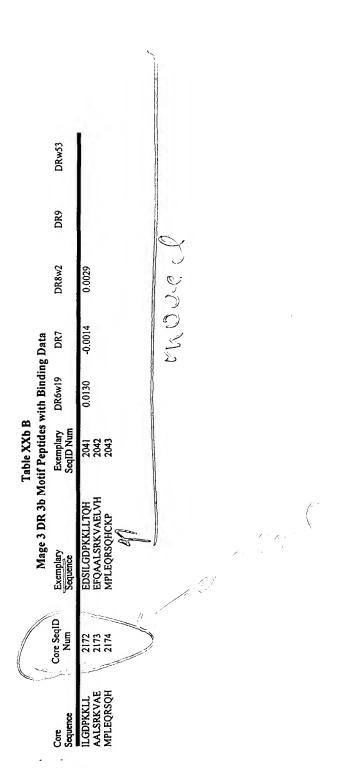


Table XXII. A2 supermotif analogs

		1)			Action and the second				
Source	AA	Sequence	SEO ID NO:	A*0201 nM	A*0202 nM	A*0203 nM	A*0206 nM	A*6802 nM	No. A2 Alleles Crossbound
MAGE3.112	6	KVAELVHFL	2214	69	29	14	168	17	S
MAGE3.112L2	6	KLAELVHFL	2215	20	0.9	5.9	12	400	'n
MAGE3.112M2	6	KMAELVHFL	2216	24	6.7	7.7	76	286	ν,
MAGE3.112L2V9	6	KLAELVHFV	2217	14	13	22	15	73	S
MAGE3.112M2V9	6	KMAELVHFV	2218	26	17	46	39	170	5
MAGE3.220	6	KIWEELSVL	2219	333	391	2381	308	;	3
MAGE3.220L2V9	6	KLWEELSVV	2220	Ξ	165	20	15	1	4
			_						

-- indicates binding affinity =10,000nM.

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## Table XXIIA A01 Analog Peptides

<u>Peptide</u>	AA	<u>Sequence</u>	SEQ ID NO:	<u>Source</u>	A*0101 nM
52.0026	8	ATCLGLSY	2221	MAGE3.179	227.3
52.013	11	VVEVVPISHLY	2222	MAGE2.166	125
52.0132	11	<b>TMNYPLWSQSY</b>	2223	MAGE3.74	301.2
52.0133	11 `	LMEVDPIGHLY	2224	MAGE3.166	3.3
57.0003	8	VTDLGLSY	2225	MAGE2.179.D3	2.7
57.0029	9	STFSTTINY	2226	MAGE2.69.T2	490.2
57.003	9	MTDLVQENY	2227	MAGE2.247.T2	0.8
57.0031	9	STLPTTMNY	2228	MAGE3.69.T2	58.1
57.0032	9	GTVVGNWQY	2229	MAGE3.137.T2	36.2
57.0033	9	ETDPIGHLY	2230	MAGE3.168.T2	0.7
57.0034	9	ITGGPHISY	" 2231 <sup>3</sup>	MAGE3.293.T2	36.2
57.0119	10	ATSFSTTINY	2232	MAGE2.68.T2	454.5
57.012	10	ASDFSTTINY	2233	MAGE2.68.D3	25
57.0121	10	LTQDLVQENY	2234	MAGE2.246.T2	58.1
57.0122	10	ATSLPTTMNY	2235	MAGE3.68.T2	208.3
57.0123	10	ASDLPTTMNY	2236	MAGE3.68.D3	2.6
57.0124	10	LTDHFVQENY	2237	MAGE3.246.D3	2.3

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1371.64 9 1371.65 9 1371.66 9		accc	MAGES 60 VOKO	c	Ca	2222 2		7 4	,
		2238	MAGEZ.69.VZK9		8.2	3333.3	ਨ	2.7	က
	SVFSTTINR	2239	MAGE2.69.V2R9		6.3	62.1	87.9	6.7	ည
	TVINYTLWR	2240	MAGE2.73.V2		76.9	720	432.8	14.5	4
	TVINYTLWK	2241	MAGE2.73.V2K9		96.8	0006	-58000	61.5	ო
	LVHFLLLKR	2242	MAGE2/3.116.R9		375	236.8	93.5	26.7	သ
	YVFPVIFSK	\ 2243	MAGE3.138.V2		က	2769.2	783.8	1.7	ო
	YVFPVIFSR	\ 2244	MAGE3.138.V2R9	35.5	2.6	9	13.2	0.5	2
	SVFAHPRR	\ 2245	MAGE2.237.R8		1538.5	620.7	580	156.9	τ-
	AVIETSYVK	2246	MAGE2.277.V2	392.9	62.5	12857.1	-290000	30.8	က
	AVIETSYVR	2247	MAGE2.277.V2R9	36666.7	171.4	128.6	1160	15.4	ო
	IVYPPLHER	2248	MAGE2.299.V2		375	94.7	32.2	13.8	ည
	IVYPPLHEK	2249	MAGE2.299.V2K9	42.3	103.4	857.1	2989.7	42.1	ო
			ĵ.						
		// ·	//						
			//						
			C						

## Table XXIIC A24 Analog Peptides

			\\\\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
<u>Peptide</u>	AA	<u>Sequence</u>	SEQ ID NO:	Source	A*2401
52.0072	8	LWGPRALI	2250	MAGE2.272	· <u>nM</u> 100
52.0072	8	QYFFPVIF	2251	MAGE3.144	
52.0078	8	SYPPLHEW	2252	MAGE3.300	100 285.7
52.0102	10	SYPPLHEWVL	2253	MAGE3.300	20.3
52.0166	11	SFSTTINYTLW	2254	MAGE3.300 MAGE2.70	
52.0167	11	IFSKASEYLQL	2255	MAGE2.70 MAGE2.150	428.6
52.017	11	IFSKASSTLQL	2256	MAGE3.150	126.3
52.017 52.0172	11	IWEELSVLEVF	2257	MAGE3.130 MAGE3.221	131.9
52.0172 57.006		MYPDLESEF	2258	MAGE3.221 MAGE2.97.Y2	461.5
	9				52.2
57.0061	9	KYVELVHFF	, 2259 ,	MAGE2.112.Y2F9	7.1
57.0062	9	IYSKASEYF	2260	MAGE2.150.Y2F9	14.6
57.0063	9	EYLQLVFGF	2261	MAGE2.156.F9	4
57.0064	9	VYPKTGLLF	2262	MAGE2.195.Y2F9	5.5
57.0065	9	TYPDLESEF	2263	MAGE3.97.Y2	218.2
57.0066	9	NYQYFFPVF	2264	MAGE3.142.Y2F9	3.4
57.0067	9	IYSKASSSF	2265	MAGE3.150.Y2F9	375
57.0068	9	IYPKAGLLF	2266	MAGE3.195.Y2F9	9.2
57.0084	10	SYSTTINYTF	2267	MAGE2.70.Y2F10	14.8
57.0085	10	LYILVTCLGF	2268	MAGE2.175.F10	17.6
57.0086	10	VYPKTGLLIF	2269	MAGE2.195.Y2F10	2.9
57.0087	10	EYLWGPRALF	2270	MAGE2.270.Y2F10	10
57.0088	10	SYVKVLHHTF	2271	MAGE2.282.F10	34.3
57.009	10	NYQYFFPVIF	2272	MAGE3.142.Y2	22.6
57.0092	10	LYIFATCLGF	2273	MAGE3.175.F10	10
57.0093	10	IYPKAGLLIF	2274	MAGE3.195.Y2F10	1.2
57.0095	10	SYPPLHEWVF	2275	MAGE3.300.F10	5.5

Table XXIII. Immunogenicity of A2 supermotif peptides

The state of the s		The second secon			, and						
Source	AA	Sequence	SEQ ID NO:	A*0201 nM	A*0202 nM	A*0203 nM	A*0206 nM	A*6802 nM	No. A2 Alleles Crossbound	CTL Wild-type	CTL
MAGE2.112	6	KMVELVHFL	2276	8.6	25	17	123	2353	4	1/1	0/1
MAGE2.112	10	KMVELVHFLL	2277	23	39	127	9.0	2667	4	1/1	0/1
MAGE2.112	11	KMVELVHFLLL	2278	5.0	45	63	109	7692	4	1/1	0/1
MAGE2.153	6	KASEYLQLV	2279	152	116	17	185	4878	4	2/4	0/2
MAGE2.157	10	YLQLVFGIEV	2280	20	165	345	370	9302	4	3/3	1/3
MAGE2.160	10	LVFGIEVVEV	2281	357	70	43	78	8.0	5	4/4	0/3
MAGE3.112	6	KVAELVHFL	2282	89	53	14	168	17	5	3/4	3/4
MAGE3.112	10	KVAELVHFLL	2283	54	36	217	206	11	5	0/1	0/1
MAGE3.159	11	QLVFGIELMEV	2284	7.9	74	217	185	267	5	3/3	1/32
MAGE3.160	10	LVFGIELMEV	2285	29	20	7.7	28	14	5	4/4	1/42
MAGE3.195	11	IMPKAGLLIIV	2286	70	226	14	176	۳,	4	3/4	0/3
MAGE3.220	6	KIWEELSVL	2287	357	391	2381	308	;	3	3/4	0/3
MAGE3.271	6	FLWGPRALV	2288	31	43	14	336	40	5	4/4	2/4
			(	,							

1) Indicates the number of donors positive over the total number of donors tested.

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 <sup>2)</sup> A positive result was seen after the second restim.
 3) -- indicates binding affinity =10,000nM.

Table XXIV. MHC-peptide binding assays: cell lines and radiolabeled ligands.

				Radi	Radiolabeled peptide	
Species	Antigen	Allele	Cell line	Source	Sequence	SEQ ID NO:
Human	A1	A*0101	Steinlin	Hu. J chain 102-110	YTAVVPLVY	2289
	A2	A*0201	ኢ	HBVc 18-27 F6->Y	FLPSDYFPSV	2290
	<b>A</b> 2	A*0202	P815 (transfected)	HBVc 18-27 F6->Y	FLPSDYFPSV	2291
	A2	A*0203	FUN	HBVc 18-27 F6->Y	FLPSDYFPSV	2292
	<b>A</b> 2	A*0206	CLA	HBVc 18-27 F6->Y	FLPSDYFPSV	2293
	A2	A*0207	721.221 (transfected)	HBVc 18-27 F6->Y	FLPSDYFPSV	2294
	A3		GM3107	non-natural (A3CON1)	KVFPYALINK	2295
	A11		BVR	non-natural (A3CON1)	KVFPYALINK	2296
	A24	A*2402	KAS116	non-natural (A24CON1)	AYIDNYNKF	2297
	A31	A*3101	SPACH	non-natural (A3CON1)	KVFPYALINK	2298
	A33	A*3301	LWAGS	non-natural (A3CON1)	KVFPYALINK	2299
	A28/68	A*6801	CIR	HBVc 141-151 T7->Y	STLPETYVVRR	2300
	A28/68	A*6802	AMAI	HBV pol 646-654 C4->A	FTQAGYPAL	2301
	B7	B*0702	GM3107	A2 sigal seq. 5-13 (L7->Y)	APRTLVYLL	2302
	B8	B*0801	Steinlin	HIVgp 586-593 Y1->F, Q5->Y	FLKDYQLL	2303
	B27	B*2705	LG2	R 60s	FRYNGLIHR	2304
	B35	B*3501	C1R, BVR	non-natural (B35CON2)	FPFKYAAAF	2305
	B35	B*3502	TISI	non-natural (B35CON2)	<b>FPFKYAAAF</b>	2306
	B35	B*3503	EHM	non-natural (B35CON2)	FPFKYAAAF	2307
	B44	B*4403	PITOUT	EF-1 G6->Y	AEMGKYSFY	2308
	B51		KAS116	non-natural (B35CON2)	FPFKYAAAF	2309
	B53	B*5301	AMAI	non-natural (B35CON2)	FPFKYAAAF	2310
	B54	B*5401	KT3	non-natural (B35CON2)	FPFKYAAAF	2311
	Cw4	Cw*0401	CIR	non-natural (C4CON1)	QYDDAVYKL	2312
	Cw6	Cw*0602	721.221 transfected	non-natural (C6CON1)	YRHDGGNVL	2313
	Cw7	Cw*0702	721.221 transfected	non-natural (C6CON1)	YRHDGGNVL	2314
Mouse	م		EL4	Adenovirus E1A P7->Y	SGPSNTYPEI	2315
	М		EL4	VSV NP 52-59	RGYVFQGL	2316
	ρα		P815	HIV-IIIB ENV G4->Y	RGPYRAFVTI	2317
	М <sup>d</sup>		P815	non-natural (KdCON1)	KFNPMKTYI	2318
	Lq		P815	HBVs 28-39	IPQSLDSYWTSL	2319

2323 2324 2325 2326 2327 2328 2329 2330 2331

YARFQRQTTLKAAA YARFQSQTTLKQKT

YARFQSQTTLKQKT YARFQSQTTLKQKT **QYIKANSKFIGITE** QYIKANSKFIGITE QYIKANSKFIGITE QYIKANSKFIGITE

17	4							_ 1		ψ.C	2:	2			
2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	
QYIKANSKFIGITE	EALIHQLKINPYVLS	QYIKANAKFIGITE	QYIKANAKFIGITE	PKYVKQNTLKLAT	NGQIGNDPNRDIL	YARFQSQTTLKQKT	ҮАНААНААНААНАА	<b>УАНААНААНААНАА</b>	ҮАНААНААНААНАА	YNTDGSTDYGILQINSR	<b>УАНААНААНААНАА</b>	<b>УАНААНААНААН</b> АА	YLEDARRKKAIYEKKK	YLEDARRKKAIYEKKK	
Tet. tox. 830-843	unknown eluted peptide	Tet. tox. 830-843 S->A	Tet. tox. 830-843	HA 307-319	Tet. tox. 830-843	non-natural (717.01)	non-natural (ROIV)	non-natural (ROIV)	non-natural (ROIV)	HEL 46-61	non-natural (ROIV)	non-natural (ROIV)	Lambda repressor 12-26	Lambda repressor 12-26	
Sweig	Herluf	H0301	GM3107 or L416.3	L255.1	MAT	L257.6	3( PF	DB27.4	A20	CH-12	LS102.9	91.7	A20	CH-12	
DRB1*1101	DRB1*1201	٠.	DRB5*0101	DRB5*0201	DRB3*0101	DRB4*0101	1QA1*0301/DQB1*03C								
DR11	DR12	<b>DR13</b>	DR51	DR51	DR52	DR53	DQ3.1	IAb	ΙΑ <sup>φ</sup>	ΙΑ <sup>k</sup>	IA³	ΙΑ <sup>u</sup>	ΙΕq	ΙΕ¢	

Mouse

B. Class II binding assays

SEQ ID NO:

2322

VVHFFKNIVTPRTPPY YAAFAAAKTAAAFA

YKTIAFDEEARR

non-natural (760.16)

L242.5 1.466.1

> DRB1\*1601 DRB1\*0301 DRB1\*0401

DR2 DR2

DRB1\*0101

Allele

Antigen

Species Human DRB1\*1501

MAT

HA Y307-319 MBP 88-102Y

Source

MT 65kD Y3-13

non-natural (717.01) non-natural (717.10) non-natural (717.01) non-natural (717.01)

Preiss YAR BIN 40 KT3 Pitout

DRB1\*0405

DRB1\*0701

DR7 DR8 DR8 DR9

DRB1\*0402 DRB1\*0404

DR4w10 DR4w14 DR4w15

DR4w4 DR3

Tet. tox. 830-843 Tet. tox. 830-843 Tet. tox. 830-843 Tet. tox. 830-843

> OLL TOTAL HID

DRB1\*0802

DRB1\*0803

DRB1\*0901

YPKYVKQNTLKLAT

Sequence

Radiolabeled peptide

Table XXVI. Crossbinding data A2 supermotif peptides

			1						
Source	ΑA	Sequence	SEQ ID NO:	A*0201 nM	A*0202 nM	A*0203 nM	A*0206 nM	A*6802 nM	No. A2 Alleles Crossbound
MAGE2.112	6	KMVELVHFL	2347	38	15	9.1	49	364	5
MAGE2.112	10	KMVELVHFLL	2348	23	39	127	0.6	7997	4
MAGE2.112	11	KMVELVHFLLL	2349	5.0	45	63	109	7692	4
MAGE2.153	6	KASEYLQLV	2350	152	116	17	185	4878	4
MAGE2.157	01	YLQLVFGIEV	2351	20	165	345	370	9302	4
MAGE2.160	10	LVFGIEVVEV	2352	357	21	44	59	8.0	5
MAGE2.220	6	KIWEELSML	2353	167	642	175	59	1	33
MAGE2.271	6	FLWGPRALI	2354	238	96	137	1542	95	4
MAGE2.277	10	ALIETSYVKV	2355	200	729	125	1947	3077	2
MAGE2/3.44	10	TLVEVTLGEV	2356	<i>L</i> 9	39	4.3	218	33	5
MAGE3.112	6	KVAELVHFL	2357	89	53	14	891	17	5
MAGE3.112	10	KVAELVHFLL	2358	54	36	217	506	11	5
MAGE3.159	11	QLVFGIELMEV	2359	7.9	74	217	185	267	5
MAGE3.160	10	LVFGIELMEV	2360	29	20	7.7	29	14	5
MAGE3.174	Ξ	HLYIFATCLGL	2361	99	741	692	;	4494	-
MAGE3.176	6	YIFATCLGL	2362	185	45	37	1028	222	4
MAGE3.195	11	IMPKAGLLIIV	2363	70	226	15	176	:	4
MAGE3.220	6	KIWEELSVL	2364	333	391	2381	308	:	3
MAGE3.271	6	FLWGPRALV	2365	31	43	14	336	40	2

-- indicates binding affinity =10,000nM.

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Table XXVII. Immunogenicity of A2 supermotif peptides

Source	ΑA	Sequence	SEQ ID NO:	A*0201 nM	A*0202 nM	A*0203 nM	A*0206 nM	A*6802 nM	No. A2 Alleles Crossbound	CTL Wild-type <sup>1</sup>	CTL
MAGE2.112	6	KMVELVHFL	2366	9.6	25	17	123	2353	4	1/1	0/1
MAGE2.112	10	KMVELVHFLL	2367	23	39	127	0.6	2667	4	1/1	0/1
MAGE2.112	=	KMVELVHFLLL	2368	5.0	45	63	109	7692	4	1/1	0/1
MAGE2.153	6	KASEYLQLV	2369	152	116	17	185	4878	4	2/4	0/2
MAGE2.157	10	YLQLVFGIEV	2370	20	165	345	370	9302	4	3/3	1/3
MAGE2.160	10	LVFGIEVVEV	2371	357	70	43	28	8.0	S	4/4	0/3
MAGE3.112	6	KVAELVHFL	2372	89	53	14	168	17	5	3/4	3/4
MAGE3.112	10	KVAELVHFLL	2373	54	36	217	206	Ξ	5	0/1	0/1
MAGE3.159	11	QLVFGIELMEV	2374	7.9	74	217	185	267	5	3/3	1/32
MAGE3.160	10	LVFGIELMEV	2375	59	20	7.7	28	14	5	4/4	1/42
MAGE3.195	11	IMPKAGLLIIV	2376	70	226	14	176	۳ ا	4	3/4	0/3
MAGE3.220	6	KIWEELSVL	2377	357	391	2381	308	ŀ	3	3/4	0/3
MAGE3.271	6	FLWGPRALV	2378	31	43	14	336	40	\$	4/4	2/4
				-							

Indicates the number of donors positive over the total number of donors tested.
 A positive result was seen after the second restim.
 - indicates binding affinity =10,000nM.

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Table XXVIII. DR supertype primary binding

Peptide	DR147 Algo Sum	Sequence	SEQ ID NO:	Source	DRI nM	DR4w4 nM	DR7 nM	DR147 Cross- binding
39.0282	2	LGEVPAADSPSPPHS	2379	MAGE2.50				0
39.0283	3	ESEFQAAISRKMVEL	2380	MAGE2.102	4.2	281	49	3
39.0284	2	GIEVVEVVPISHLYI	2381 ;	MAGE2.163	595	6429	278	2
39.0285	2	DGLLGDNQVMPKTGL	2382	MAGE2.187				0
39.0286	2	NQVMPKTGLLIIVLA	2383	MAGE2.193	2632			0
39.0287	2	KTGLLIIVLAIIAIE	2384	MAGE2.198	417	1216	862	2
39.0288	2	<b>TGLLIIVLAIIAIEG</b>	2385	MAGE2.199	6250			0
39.0291	2	GLLIIVLAIIAIEGD	2386	MAGE2.200	500			1
39.0292	3	LLIIVLAIIAIEGDC	2387	MAGE2.201	581	3750	1923	1
39.0293	2	LIIVLAIIAIEGDCA	2388	MAGE2.202	417	8824	2083	1
39.0294	2	EPHISYPPLHERALR	2389	MAGE2.296				0
39.0295	3	ALGLVGAQAPATEEQ	2390	MAGE2/3.22	152			1
39.0296	2	ESEFQAALSRKVAEL	2391	MAGE3.102	2.6	763	34	3
39.0297	2	NWQYFFPVIFSKASS	2392	MAGE3.142	46	409	446	3
39.0298	3	PVIFSKASSSLQLVF	2393	MAGE3.148	98	1875	281	2
39.0299	3	LQLVFGIELMEVDPI	2394	MAGE3.158	200		258	2
39.0300	3	GHLYIFATCLGLSYD	2395	MAGE3.173	455	4091		1
39.0301	2	DGLLGDNQIMPKAGL	2396	MAGE3.187				0
39.0302	2	NQIMPKAGLLIIVLA	2397	MAGE3.193	114			1
39.0303	2	KAGLLIIVLAIIARE	2398	MAGE3.198	1163			0
39.0304	2	AGLLIIVLAIIAREG	2399	MAGE3.199	1111		>9615	0
39.0305	3	LLIIVLAIIAREGDC	2400	MAGE3.201	1923			0
39.0306	2	GPHISYPPLHEWVLR	2401	MAGE3.296	2273			0

<sup>--</sup> indicates binding affinity =10,000nM.

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Table XXIX. DR supertype crossbinding

Peptide	Sequence	SEQ ID NO:	Source	DR1 nM	DR4w4 nM	DR7 nM	DR2w2 β1 nM	DR2w2 β2 nM	DR6w1 9 nM	DR5w1 1 nM	DR8w2 nM	DR 147 Cross- binding	Broad Binding (5/8)
0.0283	39.0283 ESEFQAAISRKMVEL	2402	MAGE2.102	4.2	281	49	147	20	522	741	1581	3	1
9.0284	39.0284 GIEVVEVVPISHLYI	2403	MAGE2.163	595	6429	278	1978	:	49	:	5506	7	· (*)
39.0287	KTGLLIIVLAIIAIE	2404	MAGE2.198	417	1216	862	2460	1	2333	:	:	7	7
9670.	39.0296 ESEFQAALSRKVAEL	2405	MAGE3.102	5.6	763	34	53	18	7000	645	1140	'n	9
39.0297	<b>NWQYFFPVIFSKASS</b>	2406	MAGE3.142	46	409	446	3033	<i>L</i> 99	1	308	223	n	9
39.0298	<b>PVIFSKASSSLQLVF</b>	2407	MAGE3.148	86	1875	281	535	ŀ	146	1	;	2	4
9.0299	39.0299 LQLVFGIELMEVDPI	2408	MAGE3.158	200	;	258	4550	:	8750	:	1	2	2

-- indicates binding affinity =10,000nM.

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## Table XXX. DR3 binding

Peptide	Sequence	SEQ ID NO:	Source	DR3 nM
39.0384	GPRMFPDLESEFQAA	2409	MAGE2.94	3371
39.0387	<b>FPDLESEFQAAISRK</b>	2410	MAGE2.98	
39.0388	EFQAAISRKMVELVH	2411	MAGE2.104	
39.0389	QLVFGIEVVEVVPIS	2412	MAGE2.159	
39.0390	CLGLSYDGLLGDNQV	2413	MAGE2.181	2143
39.0391	YDGLLGDNQVMPKTG	2414	MAGE2.186	
39.0392	LAIIAIEGDCAPEEK	2415	MAGE2.206	
39.0393	IIAIEGDCAPEEKIW	2416	MAGE2.208	4546
39.0394	EEKIWEELSMLEVFE	2417	MAGE2.218	
39.0395	RKLLMQDLVQENYLE	2418	MAGE2.243	2000
39.0396	MQDLVQENYLEYRQV	2419/	MAGE2.247	1500
39.0397	VKVLHHTLKIGGEPH	2420	MAGE2.284	
39.0398	TLKIGGEPHISYPPL	2421	MAGE2.290	
39.0399	FPDLESEFQAALSRK \	2422	MAGE3.98	
39.0400	EFQAALSRKVAELVH	2423	MAGE3.104	
39.0401	QLVFGIELMEVDPIG	2424	MAGE3.159	
39.0402	IELMEVDPIGHLYIF	2425	MAGE3.164	167
39.0403	CLGLSYDGLLGDNQI	2426	MAGE3.181	
39.0404	YDGLLGDNQIMPKAG	2427	MAGE3.186	
39.0405	LAIIAREGDCAPEEK	2428	MAGE3.206	
39.0406	EEKIWEELSVLEVFE	2429	MAGE3.218	
39.0407	EDSILGDPKKLLTQH **	2430	MAGE3.235	448
39.0408	TQHFVQENYLEYRQV	2431	MAGE3.247	1071

<sup>--</sup> indicates binding affinity =10,000nM.

Table XXXI. HTL Candidates

Peptide	Sequence	SEQ ID NO:	Motif	Source	DR1 nM	DR4w4 nM	DR7 nM	DR3 nM	DR2w2 β1 nM	DR2w2 β2 nM	DR6w1 9 nM	DR5w1 1 nM	DR8w2 nM	DR 147 Cross- binding	Broad Binding (5/8)	DR3 Binder
39.0283	ESEFQAAISRKMVEL	2432	DR sup	MAGE2.102	4.2	281	49	:		20	522	741	1581	3	7	0
39.0296	ESEFQAALSRKVAEL	2433	DR sup	MAGE3.102	က	763	34	ŧ		18	7000	645	1140	m	9	0
39.0297	NWQYFFPVIFSKASS	2434	DR sup	MAGE3.142	46	409	446	:	•	<b>L99</b>	;	308	223	n	9	0
39.0402	39.0402 IELMEVDPIGHLYIF 2435 DR3 MAGE3.164	2435	DR3	MAGE3.164	:	>8182	9259	167	1597	:	569	:	3769	0	-	-
39.0407	EDSILGDPKKLLTQH	2436	DR3	MAGE3.235	1	>8182		448		1	569	ŧ	;	0	-	_

-- indicates binding affinity = 10,000nM.